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File Name ADM-1-1-1 May 1990

Senders Initials JG

MEETING AGENDA
ENVIRONMENTAL PROTECTION COMMISSION
WALLACE STATE OFFICE BUILDING
DES MOINES, IOWA
May 21, 1990

Meeting convenes at 10:00 a.m., May 21, 1990 in the fourth floor conference room

Appointments:

Public Participation	11:00 a.m.
Karlton Fullenworth (Item #11)	1:30 p.m.
Break	3:00 p.m.
Bridgestone/Firestone, Inc.	3:30 ~~4:00~~ p.m.
Attorney for Hoover/Edwards (Item #17)	3:15 p.m.
City of Charlton	2:30 p.m.

1. Approve Agenda. Ted Payseur (Item 11)
2. Election of Officers.
3. Approve Minutes of April 16, 1990.
4. Director's Report. (Wilson) Informational.
5. Notice of Intended Action--Chapter 209, Grants for Solid Waste Demonstration Projects. (Hay) Decision.
6. Financial Status Report/Bureau and Cost Center Detail. (Kuhn) Informational.
7. Groundwater Fund. (Kuhn) Informational.
8. Monthly Reports. (Stokes) Informational.
9. Final Rule--Chapter 23, National Emission Standards for Hazardous Air Pollutants (NESHAPS) - Asbestos Demolition and Renovation Operations. (Stokes) Decision.
10. Notice of Intended Action--Chapter 22, Prevention of Significant Deterioration (PSD). (Stokes) Decision.
11. Notice of Intended Action--Chapters 69 and 121, Land Application of Municipal Sewage Sludge and Other Wastes. (Stokes) Decision.
12. ~~Notice of Intended Action~~--Chapter 61, Water ~~Quality~~ Body Classifications. (Stokes) ~~Decision~~.
13. Proposed Rule -- ~~Notice of Intended Action~~--Chapter 61, Water Quality Standards Human Health Criteria. (Stokes) ~~Decision~~. Information
14. Proposed Rule--Chapter 39 Amendment, Requirements for Properly Plugging Abandoned Wells. (Stokes) Informational.
15. Notice of Intended Action--Chapters 40, 41, and 43, Water Supply. (Stokes) Decision.

16. Proposed Rule--Chapter 63, CBOD Permit Limits for Industry. (Stokes) Informational.

17. Contested Case Appeal--Dannie R. Hoover and Bill Edwards. (Combs) Decision.

18. Referrals to the Attorney General. (Combs) Decision.

    (a) East Side Acres (Moville)
    (b) Bridgestone/Firestone, Inc. (Des Moines)
    (c) City of Chariton (Lucas-Monroe SLF)

19. General Discussion Items.

20. Address Items for Next Meeting.

NEXT MEETING DATES

June 18-19, 1990
July 16-17, 1990
August 20-21, 1990

ENVIRONMENTAL PROTECTION COMMISSION

Monday, May 21, 1990

NAME	COMPANY OR AGENCY	CITY
DAN VEST	GROWMARK	BLOOMINGTON, IL.
John Stewart	Chapcist C.W.C. Corporation	Garner, Iowa
R. Ted Payseur	IWPCA	W. Des Moines
LYNN MORGAN	WASTE MGMT	MILW, WI
JEFF Robinson	LFB	D.M.
THERESA Kehoe	SDC	D.M.
JOE NETTLETON	SOLVAY ANIMAL HEALTH	CHARLES CIT
Don Balvanz	Hardin Co Supervisor	Eldora
Monica Crook	IBP	Perry
OKAY HENDERSON	RADIO IA	DM
Dale Johnson	Farm Bureau Spokesman	WDM
Jim Gunthorp	Co. Supv.	B.V. Coun
Kathleen Fullenwarth		Storm Lake, I
Wallace Ogle		Lakeside, Iowa
HARRIS SEIDEL	CITY OF AMES	AMES
Betsy Rubine	Des Moines Register	
Ethel W Elam	City of Charlton	Charlton

ENVIRONMENTAL PROTECTION COMMISSION

NAME	COMPANY OR AGENCY	CITY
Les Lamping	Day & Meeker	Washington
Larry Crane	J. M. Montgomery	Des Moines
Thibe Gorey	Bridgestone/Firestone	"
LARRY GROFF	" "	"
DAVID DIRKS	" "	"
JOHN POAGE	" "	"

RECORD COPY EPC Meeting
File Name ADM-1-1-1 May 1990
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Minutes of the Environmental Protection Commission Meeting

May 21, 1990

Wallace State Office Building, Des Moines, Iowa

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MAY 1990 COMMISSION MEETING

The meeting of the Environmental Protection Commission was held in the Wallace State Office Building, Des Moines, Iowa, convening at 10:00 a.m. on May 21, 1990.

MEMBERS PRESENT

Mike Earley, William Ehm, Richard Hartsuck, Rozanne King, Charlotte Mohr, Margaret Prahl, Gary Priebe, and Nancylee Siebenmann,

MEMBERS ABSENT

Clark Yeager

ADOPTION OF AGENDA

The following appointments were added to the agenda:

Karlton Fullenworth (Item #11) - 1:30 p.m.
Ted Payseur (Item #11) - 1:30 p.m.
City of Chariton (A.G. Referral) - 2:30 p.m.
Representative for Dannie Hoover & Bill Edwards - 3:15 p.m.
Bridgestone/Firestone, Inc. (A.G. Referral) - 4:00 p.m.

Motion was made by Richard Hartsuck to approve the agenda as amended. Seconded by William Ehm. Motion carried unanimously.

ELECTION OF OFFICERS

Chairperson Mohr asked for nominations for officers.

Stating that the current officers have done a respectable job, Gary Priebe moved that they remain in their respective positions and he nominated Charlotte Mohr as Chairperson, Clark Yeager as Vice-Chair person, and Nancylee Siebenmann as Secretary. Seconded by William Ehm. Motion carried unanimously.

Motion was made by Nancylee Siebenmann to cast a unanimous ballot for Charlotte Mohr as Chairperson, Clark Yeager as Vice-Chairperson, and Nancylee Siebenmann as Secretary. Seconded by Richard Hartsuck. Motion carried unanimously.

ADOPTION OF MINUTES

Charlotte Mohr pointed out a typographical error in the word "significant" on page 75. She also noted that on page 85, Mr. Ervin's reference to a meeting with "legislators and Larry Wilson" should state that attendance included Clark Yeager, Gary Priebe, Allan Stokes, and Charlotte Mohr.

Nancylee Siebenmann stated that on page 82, the following sentence should be added after paragraph seven: The Commission requested staff to prepare an item regarding municipal sludge application for next month's meeting. She also noted that the last sentence on page 84 was incorrectly placed and should be deleted.

Motion was made by Margaret Prahl to approve the minutes of April 16, 1990 as amended. Seconded by Nancylee Siebenmann. Motion carried unanimously.

DIRECTOR'S REPORT

Larry Wilson, Director, noted that a summary of 1990 Legislation for DNR was distributed to each Commissioner for their information.

He reported on the status of the Missouri River and actions filed between the basin states and Montana, North and South Dakota to force the Corps of Engineers into not releasing more water from the reservoirs than what was coming into the reservoirs.

Mr. Wilson offered the Commission information on Lizard Lake to aid in responding to inquiries thay had received on it.

Mr. Wilson reported that he and Al Stokes were in Lowden to observe the removal of the aflatoxin contaminated corn and all of it has now been removed. He commended DNR staffpersons Joe Wilkinson, Morris Preston, John Vedder and Mark Landa for their help at the site.

Morris Preston, Solid Waste Section, showed and explained a videotape taken by Joe Wilkinson covering the corn removal operation.

Chairperson Mohr commented that she was at Lowden both days when the corn removal was taking place. She circulated a brochure describing how and where the corn will be disposed. She commended DNR staff for the excellent job they did in providing help at the site.

NOTICE OF INTENDED ACTION--CHAPTER 209, GRANTS FOR SOLID WASTE DEMONSTRATION PROJECTS

Teresa Hay, Division Administrator, Waste Management Authority Division, presented the following item.

The Commission is requested to approve the proposed rule revision relating to Grants for Solid Waste Demonstration Projects. The purpose of the revision is to strengthen the current rules governing the grant program and to further define or redefine eligibility requirments, evaluation criteria, establish cost-share requirements and a ceiling for funding of projects and require the use of a specific application form to be used by grant applicants.

The proposed rule revision:

- Adds additional definitions.

- Establishes new sections further defining eligible and ineligible costs.

- Adds cost-share requirments based on the type of project to be funded (following the solid waste management hierarchy). Also proposes a maximum funding level of $300,000 per project and establishes a time frame for receiving further grant funding through this program.

- Adds two (2) new project award criteria. One covering the planning and management abilities of the applicants and one evaluating public education programs inherent to many projects.

- Strikes two (2) project award criteria. The projects nearness to completion and environmental benefits and acceptability criteria were struck due to the difficult nature of using these criteria in the evaluation of the submitted proposals.

- Adds language pursuant to Iowa Code 455B.314 concerning the separation of recyclable and potentially hazardous materials before incineration of solid wastes.

- Strikes language that specifically requires the reservation of funds for environmental assessments and adds similar language to the section defining eligible projects.

- Adds new section regarding application forms that will be required by all new applicants.

- Adds new section concerning reasons for denying grant funding.

ENVIRONMENTAL PROTECTION COMMISSION [567]
Notice of Intended Action

Pursuant to Iowa Code 455B and 455E, the Environmental Protection Commission of the Department of Natural Resources gives Notice of Intended Action to amend 567 -- Chapter 209 "Grants for Solid Waste Demonstration Projects," Iowa Administrative Code.

The purpose of the revisions is to strengthen and clarify current rules governing the grant program, to set limits on the amount of grant funding available to any project, and define the information required to properly evaluate grant proposals.

Any interested person may file written comments or suggestions on the proposed rules through July 20, 1990. Such written materials should be directed to Robert Ribbens or Stu Schmitz, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034. FAX: 515/281-8895. Comments may be made by telephone by calling 515/281-8382, or 515/281-8499. Persons are also invited to present oral or written comments at a public hearing which will be held Thursday, July 5, 1990 at 1:00 p.m., 5th Floor East Conference Room at the Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa.

In accordance with Iowa Code section 17A.31, notice is hereby given that these rules may have an impact on small businesses.

These rules are intended to implement sections 455B and 455E of the Code of Iowa.

ITEM 1. Amend rule 209.1 (455B, 455E) as follows:

567--209.1(455B,455E) Goal. The goals of this program ~~is~~ are to demonstrate alternative methods for managing solid wastes~~.--Also, the program is~~ designed to reduce the environmental effects related to disposal of solid wastes in Iowa landfills. These goals will be achieved through specific actions, as outlined in 1987 Iowa Acts, House File 631, the Groundwater Protection Act, and include the following hierarchy of waste management priorities in descending order of preference:

1. Volume reduction at the source;
2. Recycling/reuse;
3. Combustion with energy recovery and reuse-derived fuels production; and
4. ~~c~~Combustion for volume reduction.

ITEM 2. Amend rule 209.2 (455B, 455E) as follow:

567--209.2(455B,455E) Purpose. The purpose of this program is to provide grants and other financial assistance to ~~local governments and commercial establishments~~ eligible candidates including any unit of local government, not-for-profit organization and for-profit commercial establishments located in Iowa for the purpose of developing and implementing demonstration projects for landfill alternatives to solid waste disposal. Projects sponsored by the department of natural resources must meet one of the ~~criteria outlined in the~~ program goals for reducing materials being disposed of in sanitary landfills and will be selected through a competitive grant process.

ITEM 3. Amend rule 209.3 (455B, 455E) as follows:

567--209.3(455B,455E) Definitions.

"Department" means the Iowa ~~d~~Department of ~~n~~Natural ~~r~~Resources.

~~"Eligible candidate" means any unit of local government, not-for-profit organization and for-profit commercial establishments located in Iowa.~~

"Eligible project" means any project which is capable of recycling solid wastes, reducing the amount of solid wastes sent to a sanitary landfill, or producing energy from the solid wastes.

"Energy production" is defined as the direct conversion of solid wastes into useful process heat or electricity or the production of processed fuels which can be used in place of coal, natural gas, or oil.

"Financial assistance" means monetary assistance other than grants including interest buydowns on loans.

"Grants" means financial assistance in the form of cash payments to eligible candidates for certain considerations.

"Groundwater pProtection Act" means 1987 Iowa Acts, cChapter 225, which sets forth laws pertaining to the protection of Iowa's groundwater resources through reduced disposal of solid wastes at landfills ~~and pesticides~~ and provides grants to encourage better management of Iowa's groundwater resources.

"Petroleum overcharge allocation" means 1897 Iowa Acts, cChapter 230, which allocates and appropriates Iowa's petroleum overcharge refunds generated from Stripper Well, Exxon, Amoco, and other petroleum overcharge settlements.

"Sanitary landfill" means a sanitary disposal project where solid waste is buried between layers of earth.

"Waste management authority" means the waste management authority division of the department of natural resources established by 1987 Iowa Acts, cChapter 180.

"Overhead costs" means expenses not chargeable to a particular part of the work or product including, but not limited to, utilities and insurance.

"Indirect costs" means costs that are not identifiable with a specific product, function, or activity.

"Cost-share" means the percent of applicant funds contributed to the project for those expenses or services that are directly dedicated to the project including, but not limited to, assessed worth of existing equipment, buildings, and salaries directly related to an existing project and costs of new or rented equipment and buildings and salaries and services directly related to the project.

ITEM 4. Amend rule 209.5(455B, 455E) as follows:

567--209.4(455B,455E) Role of the department of natural resources. The department of natural resources is responsible for the administration of funds for projects sponsored under these rules. The department will assure that funds disbursed will meet guidelines established by the gGroundwater pProtection Act, the allocation of petroleum overcharge funds, and the wWaste mManagement aAuthority Act.

Any eligible project may be submitted by any eligible candidate for grant consideration under this chapter. The director will determine which projects will receive funding after review by the waste management authority division; ~~the energy and geological resources division;~~ and the environmental protection division of the department.

ITEM 5. Delete rule 209.8(455B, 455E). Renumber rule 209.6(455B, 455E) to 209.8 and amend as follows:

567--209.68(455B,455E) Eligible projects. The department may provide grants to eligible candidates for the following types of projects:

1. Volume reduction at the source;
2. ~~Source separation/reuse~~ Recycling and reuse including composting;
3. The production of energy or ~~densified~~ refuse-derived fuels;
4. Other projects which reduce the amount of material disposed of in landfills; and

5. Environmental testing related to ~~the use of municipal solid waste as an energy source~~ various landfill alternatives for solid waste. Such projects shall include, but not be limited to, testing air emissions generated by the combustion of municipal solid waste and an analysis of the ash generated as a result of the combustion of municipal solid waste.

ITEM 6. Adopt new rule 209.6 (455B, 455E) as follows:

567--209.6(455B,455E) Eligible costs. Applicants can request monetary assistance in the operation of the project which include funds for:

1. collection, processing or hauling equipment;
2. materials and labor for construction of buildings;
3. engineering or consulting fees;
4. contractual labor for installation of equipment;
5. laboratory analysis costs;
6. salaries directly related to the project;
7. development and distribution of educational materials;
8. planning and implementation of educational forums including, but not limited to, workshops.

ITEM 7. Renumber rule 209.7 (455B, 455E) to 209.9 (455B, 455E) and amend as follows:

567--209.~~7~~9(455B,455E) Project award. Projects will be awarded based on the following criteria. The department will determine the relative value of each of these factors in deciding which projects will receive funding. The criteria include:

1. ~~The projects nearness to completion~~ Planning and management ability. Evaluation of the planning efforts and management ability of the project personnel;

2. Transferability of the project ~~to other communities and commercial establishments~~. The extent to which the results of this project will prove valuable to other Iowa communities or industries considering the implementation of a similar project.

3. Cost-share by ~~community or commercial establishment~~ applicant:;

a) An applicant for a grant shall agree to provide a minimum cost-share of local funds toward the cost of the project:

(1) projects for volume reduction at the source - 40%;

(2) projects for recycling and reuse - 50%;

(3) projects for combustion with energy recovery - 60%;

(4) projects for combustion without energy recovery - 70%;

b) An applicant is eligible for a maximum grant of $300,000 and shall not be eligible to receive further grant funds until the ending date of the last grant contract obtained through this program.

4. Public Education. The effectiveness of the proposed education program, where applicable, will be considered.

~~4. Environmental benefits and acceptability;~~

5. Percentage of municipal solid waste diverted from the landfill and how soon the project will begin affecting the waste stream;

6. Extent to which the project incorporates and reflects the hierarchy of waste management priorities of the state solid waste management policy~~.~~;

7. Consistency with local and regional solid waste planning efforts~~.~~ including a commitment to a consistent volume of solid waste for the project or a plan to obtain a consistent volume of solid waste;

If a project is not part of a comprehensive plan required under 455B.306, the department may request a letter explaining how this project will or will not potentially impact the comprehensive planning process and, if there is an

impact, the department may request a schedule for including the project in the appropriate comprehensive plan or plans.

8. Documentation that a market analysis has been completed for recyclable goods and energy markets.

When energy projects are being considered for funding, the following additional criteria will be included:

~~Commitment from energy market;~~

Recovery of noncombustibles;

Implementation of recycling/source separation projects in conjunction with the energy recovery project. Projects involving incineration shall separate from the materials to be incinerated recyclable and reusable materials, materials which will result in uncontrolled toxic or hazardous air emissions when burned, and hazardous or toxic materials which are not rendered nonhazardous or nontoxic by incineration. The removed materials shall be recycled, reused, or treated and disposed in a manner approved the department. Methods to implement such a program shall be included.

ITEM 8. Adopt new rule 209.7 (455B, 455E) as follows:

567--209.7(455B,455E) Ineligible costs. Applicants cannot request monetary assistance for the following costs:

1. taxes;
2. vehicle registration;
3. indirect or overhead expenses;
4. legal costs;
5. contingency funds;
6. land acquisition.

ITEM 9. Adopt new rule 209.10 (455B, 455D) as follows:

567--209.10(455B,455E) Application forms. An applicant shall submit a completed application form provided by the department. The application forms will include, but not be limited to, the following information:

1. name of applicant;
2. address of applicant;
3. phone number of contact person;
4. documentation of resources including:
a) identifiable monetary resources;
b) land, buildings, or equipment;
c) insurance coverage;
d) support services;
e) personnel.
5. information satisfying the provisions of sections 209.6 through 209.9 of this rule.
6. documentation of commitment of a consistent volume of solid waste for the project.
7. documentation of consistency with local and regional solid waste planning efforts.

Applications will be due the first Monday in June and the first Monday in December of every year unless otherwise designated by the waste management authority division. Application materials received after the deadline will be kept on file and considered in the following grant round.

ITEM 10. Adopt new rule 209.11 (455B, 455E) as follows:

567--209.11(455B,455E) Grant denial. An applicant may be denied funding for any of the following reasons:

1. An applicant does not meet eligibility requirements pursuant to the provisions of sections 209.6 through 209.10 of this rule.

2. An applicant does not provide sufficient information requested in the application forms pursuant to sections 209.6-209.10.
3. The project goals or scope are not consistent with sections 209.1, 209.2, 209.6, 209.7, and 209.8 of this rule.
Dated this _____ day of May, 1990.

_____
Larry J. Wilson, Director

Ms. Hay explained the rules in detail.

Chairperson Mohr pointed out an error on page 2, paragraph 6 of the rule, where the date 1897 should be 1987.

Discussion followed and Margaret Prahl commented that she has a problem with the fact that there is no geographical balance criteria in the rules. She added that she would like to see a geographical/population balance provision included in the rules.

Ms. Hay remarked that the desire is to base awards on the quality of the project rather than location or population. That way a poor project is not awarded merely because of its size or location. She added that, in the past, various areas of the state have received grants. Ms. Hay noted that because the grants are funded by tonnage fees, the people in metropolitan areas feel very strongly that the grants should go back on the basis of what is paid in.

Motion was made by Margaret Prahl to make an addition to the rule to include geographic, population, and funding balance criteria in regards to project awards. Seconded by Gary Priebe.

Ms. Hay stated that representatives of every part of the state can give a reason why their area should be one to get an equal or weighted number of grants.

Director Wilson stated that staff will work up some language to make the requested addition.

Gary Priebe stated that he agrees with Commissioner Prahl's proposal, but he would hate to see it set in hard, cold facts that it has to be geographic, although it is something that should be looked at.

Richard Hartsuck stated that he prefers a pure merit system. He feels western Iowa should get as fair representation with the judges on the basis of merit.

Discussion followed.

Chairperson Mohr requested a roll call vote on Commissioner Prahl's motion. "Aye" vote was cast by Commissioners Earley, Ehm, King, Prahl, Priebe, Siebenmann, and Mohr. "Nay" vote was cast by Commissioner Hartsuck. Motion carried on a vote of 7-Aye to 1-Nay.

Motion was made by Margaret Prahl to approve Notice of Intended Action--Chapter 209, Grants for Solid Waste Demonstration Projects, as amended with the requested criteria addition. Seconded by Gary Priebe. Motion carried unanimously.

FINANCIAL STATUS REPORT - BUREAU AND COST CENTER DETAIL

Stan Kuhn, Division Administrator, Administrative Services Division, presented the following item.

Attached is the year-to-date Financial Summary report, as of 4/30, for each DNR division. Although a detailed analysis has not been completed as of this date, no issues beyond those previously identified are anticipated.

In anticipation of the budgeting process for FY91, FY92 and FY93 which will start shortly, cost center and bureau statements, similar to the division report, have also been included.

The cost centers for the EPD are generally defined in terms of their respective funding sources and whether they are located in the central office or regional offices. Attached to this section is a brief description of activities covered within each cost center. Cost centers can be easily identified by referencing the word "organization" at the beginning of each totals line. Cost centers are summarized by "bureaus" and, of course, the total of the bureaus constitute a division.

Cost center and bureau information is also attached for the Coordination and Information division, the Administrative Services division, and the Waste Management Authority division. In some cases within these divisions, there is no "organization" below the "bureau" level. Thus, the computer prints one set of information for the "organization" and repeats the same set of information for the "bureau."

This additional detail is being provided so that commissioners may examine current budget and expenditure information in greater detail, if desired, as an initial step in the budget preparation process.

J080C103

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
1000 DIRECTOR"S OFFICE					
101 PERSONAL SERVICES	16,865.18	172,740.09	180,691.00	7,950.91-	223,101.00
202 PERSONAL TRAVEL	2,754.71	30,975.79	30,440.00	535.79	40,000.00
301 OFFICE SUPPLIES	19.79	1,576.16	900.00	676.16	1,200.00
303 EQUIPMENT MAINTENANCE SUP	80.00	621.75	900.00	278.25-	1,200.00
308 OTHER SUPPLIES	10.65	1,003.26	100.00	903.26	120.00
309 PRINTING & BINDING	1,206.25	9,986.35	9,090.00	896.35	14,120.00
405 PROF & SCIENTIFIC SERVICE	0.00	29.58	3,000.00	2,970.42-	6,000.00
406 OUTSIDE SERVICES	0.00	597.85	2,250.00	1,652.15-	3,200.00
410 DATA PROCESSING	459.14	1,910.25	3,200.00	1,289.75-	4,800.00
414 REIMBURSEMENTS TO OTHER A	0.00	588.70	0.00	588.70	0.00
501 EQUIPMENT	0.00	2,274.75	4,800.00	2,525.25-	4,800.00
DIVISION TOTAL	21,395.72	222,304.53	235,371.00	13,066.47-	298,541.00

J080C103

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
2000 COORDINATION AND INFORMATION					
101 PERSONAL SERVICES	112,649.10	1,186,146.03	1,214,116.00	27,969.97-	1,481,952.00
202 PERSONAL TRAVEL	5,053.35	36,864.15	33,898.00	2,966.15	45,800.00
203 STATE VEHICLE OPERATION	1,407.26	7,686.44	8,198.00	511.56-	10,931.00
204 STATE VEHICLE DEPRECIATIO	1,260.00	11,955.00	13,275.00	1,320.00-	17,700.00
301 OFFICE SUPPLIES	135.00	63,760.17	52,875.00	10,885.17	70,500.00
302 FACILITY MAINTENANCE SUPP	1,273.25	14,121.05	18,249.00	4,127.95-	24,000.00
303 EQUIPMENT MAINTENANCE SUP	516.58	9,483.95	9,000.00	483.95	12,000.00
307 AG.,CONSERVATION & HORT S	0.00	220.00	500.00	280.00-	500.00
308 OTHER SUPPLIES	6,703.33	56,820.32	21,575.00	35,245.32	28,700.00
309 PRINTING & BINDING	44,419.87	284,706.46	285,731.00	1,024.54-	373,950.00
312 UNIFORMS & RELATED ITEMS	0.00	2,372.54	2,637.00	264.46-	2,850.00
401 COMMUNICATIONS	1,088.56	10,245.17	6,899.00	3,346.17	9,200.00
402 RENTALS	427.27	1,081.41	500.00	581.41	500.00
403 UTILITIES	69.67	19,534.86	20,060.00	525.14-	26,750.00
405 PROF & SCIENTIFIC SERVICE	150.00	41,467.50	91,420.00	49,952.50-	101,920.00
406 OUTSIDE SERVICES	4,837.56	38,866.16	36,250.00	2,616.16	60,000.00
408 ADVERTISING & PUBLICITY	907.30	7,885.12	12,500.00	4,614.88-	12,500.00
410 DATA PROCESSING	2,667.53	9,264.25	14,101.00	4,836.75-	19,600.00
414 REIMBURSEMENTS TO OTHER A	0.00	2,311.61	5,000.00	2,688.39-	5,000.00
501 EQUIPMENT	17,435.68	73,810.02	67,850.00	5,960.02	68,150.00
DIVISION TOTAL	201,001.31	1,878,602.21	1,914,634.00	36,031.79-	2,372,503.00

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IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURREN ANNUAL BUDGE
3000 ADMINISTRATIVE SERVICES DIV.					
101 PERSONAL SERVICES	289,835.89	2,963,782.17	3,215,275.00	251,492.83-	3,870,134.
202 PERSONAL TRAVEL	2,219.51	35,248.77	45,758.00	10,509.23-	61,400.
203 STATE VEHICLE OPERATION	2,674.55	39,115.95	45,890.00	6,774.05-	58,500.
204 STATE VEHICLE DEPRECIATIO	5,355.00	53,725.00	54,650.00	925.00-	68,500
301 OFFICE SUPPLIES	39,148.36	377,356.05	291,670.00	85,686.05	340,050
302 FACILITY MAINTENANCE SUPP	0.00	318.85	1,500.00	1,181.15-	1,700
303 EQUIPMENT MAINTENANCE SUP	4,211.63	54,028.07	52,135.00	1,893.07	63,390
308 OTHER SUPPLIES	619.57	10,831.07	10,616.00	215.07	12,900
309 PRINTING & BINDING	4,072.80	19,125.60	21,183.00	2,057.40-	27,075
312 UNIFORMS & RELATED ITEMS	0.00	1,308.46	4,000.00	2,691.54-	4,200
401 COMMUNICATIONS	2,828.72	144,660.93	166,708.00	22,047.07-	221,900
402 RENTALS	109.50	328.50	375.00	46.50-	500
406 OUTSIDE SERVICES	2,189.80	19,997.96	29,288.00	9,290.04-	35,950
410 DATA PROCESSING	13,335.81-	62,829.96	91,333.00	28,503.04-	119,500
412 AUDITOR OF STATE REIMBURS	0.00	75,495.00	100,000.00	24,505.00-	112,000
414 REIMBURSEMENTS TO OTHER A	2,452.58	10,371.40	9,070.00	1,301.40	11,650
501 EQUIPMENT	3,423.78	90,033.98	120,202.00	30,168.02-	142,350
701 LICENSES	0.00	2.50	100.00	97.50-	15
DIVISION TOTAL	345,805.88	3,958,560.22	4,259,753.00	301,192.78-	5,151,84

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
4000 PARKS, PRES. & RECREATION DIV.					
101 PERSONAL SERVICES	310,127.51	3,861,467.43	3,882,479.00	21,011.57-	5,073,170.00
202 PERSONAL TRAVEL	7,147.40	44,668.68	82,267.00	37,598.32-	103,709.00
203 STATE VEHICLE OPERATION	13,841.41	149,639.57	149,001.00	638.57	179,776.00
204 STATE VEHICLE DEPRECIATIO	15,985.00	171,695.00	233,676.00	61,981.00-	287,369.00
301 OFFICE SUPPLIES	3,691.09	27,345.06	37,669.00	10,323.94-	45,575.00
302 FACILITY MAINTENANCE SUPP	45,261.85	489,710.18	522,901.00	33,190.82-	692,568.00
303 EQUIPMENT MAINTENANCE SUP	25,149.42	212,558.22	216,028.00	3,469.78-	294,000.00
307 AG.,CONSERVATION & HORT S	560.44	8,201.05	11,040.00	2,838.95-	19,500.00
308 OTHER SUPPLIES	3,952.84	44,306.58	19,853.00	24,453.58	26,944.00
309 PRINTING & BINDING	5,556.90	26,725.55	63,739.00	37,013.45-	102,339.00
312 UNIFORMS & RELATED ITEMS	4,807.95	23,696.56	37,266.00	13,569.44-	49,433.00
401 COMMUNICATIONS	8,590.29	60,882.34	54,238.00	6,644.34	72,182.00
402 RENTALS	207.00	20,466.26	14,025.00	6,441.26	20,490.00
403 UTILITIES	20,335.36	264,613.82	216,997.00	47,616.82	293,276.00
405 PROF & SCIENTIFIC SERVICE	6,830.75	21,330.75	31,945.00	10,614.25-	60,045.00
406 OUTSIDE SERVICES	9,082.88	120,087.92	107,825.00	12,262.92	165,332.00
408 ADVERTISING & PUBLICITY	3,662.58	3,938.73	4,000.00	61.27-	4,000.00
410 DATA PROCESSING	647.37	2,523.36	5,495.00	2,971.64-	8,000.00
414 REIMBURSEMENTS TO OTHER A	99.32	5,984.43	550.00	5,434.43	1,050.00
501 EQUIPMENT	7,777.23	180,134.54	166,464.00	13,670.54	197,730.00
701 LICENSES	20.00	170.00	2,075.00	1,905.00-	2,100.00
DIVISION TOTAL	493,334.59	5,740,146.03	5,859,533.00	119,386.97-	7,698,588.00

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
5000 FORESTRY DIVISION					
101 PERSONAL SERVICES	159,362.63	1,332,774.51	1,399,875.00	67,100.49-	1,715,917.00
202 PERSONAL TRAVEL	5,840.74	31,384.27	30,775.00	609.27	40,235.00
203 STATE VEHICLE OPERATION	4,546.57	55,621.83	63,290.00	7,668.17-	75,000.00
204 STATE VEHICLE DEPRECIATIO	8,750.00	89,645.00	99,090.00	9,445.00-	118,900.00
301 OFFICE SUPPLIES	2,020.35	42,996.99	14,330.00	28,666.99	16,920.00
302 FACILITY MAINTENANCE SUPP	2,427.38	14,471.80	26,833.00	12,361.20-	31,000.00
303 EQUIPMENT MAINTENANCE SUP	6,886.76	43,088.18	45,133.00	2,044.82-	58,700.00
307 AG.,CONSERVATION & HORT S	115.40	67,253.18	107,978.00	40,724.82-	108,378.00
308 OTHER SUPPLIES	2,155.61	12,643.05	15,650.00	3,006.95-	15,900.00
309 PRINTING & BINDING	2,179.60	7,855.20	17,920.00	10,064.80-	18,720.00
312 UNIFORMS & RELATED ITEMS	150.22	12,354.77	14,091.00	1,736.23-	14,225.00
401 COMMUNICATIONS	3,132.27	20,342.58	17,395.00	2,947.58	23,230.00
402 RENTALS	4,841.08	15,891.25	13,150.00	2,741.25	17,200.00
403 UTILITIES	3,712.81	22,013.31	22,475.00	461.69-	26,084.00
406 OUTSIDE SERVICES	454.42	15,907.35	38,500.00	22,592.65-	42,800.00
408 ADVERTISING & PUBLICITY	37.16	444.41	900.00	455.59-	900.00
410 DATA PROCESSING	369.58	1,567.04	680.00	887.04	700.00
414 REIMBURSEMENTS TO OTHER A	0.00	839.35	500.00	339.35	600.00
501 EQUIPMENT	4,186.18	55,994.53	95,270.00	39,275.47-	100,304.00
701 LICENSES	0.00	305.00	83.00	222.00	100.00
DIVISION TOTAL	211,168.76	1,843,393.60	2,023,918.00	180,524.40-	2,425,813.00

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
6000 ENERGY & GEOLOGICAL RESOURCES					
101 PERSONAL SERVICES	167,738.60	1,662,499.05	1,751,339.00	88,839.95-	2,161,890.00
202 PERSONAL TRAVEL	4,224.67	53,132.69	61,465.00	8,332.31-	77,592.00
203 STATE VEHICLE OPERATION	1,489.69	16,151.52	21,484.00	5,332.48-	26,540.00
204 STATE VEHICLE DEPRECIATIO	2,120.00	20,915.00	19,534.00	1,381.00	23,442.00
301 OFFICE SUPPLIES	1,286.00	15,134.93	10,944.00	4,190.93	13,296.00
302 FACILITY MAINTENANCE SUPP	1,624.40	2,536.98	2,800.00	263.02-	3,800.00
303 EQUIPMENT MAINTENANCE SUP	932.43	2,930.68	2,850.00	80.68	3,300.00
304 PROF. & SCIENTIFIC SUPPL	0.00	6,246.69	13,156.00	6,909.31-	13,546.00
308 OTHER SUPPLIES	4,197.17	35,004.02	23,956.00	11,048.02	28,200.00
309 PRINTING & BINDING	1,282.85	16,001.27	21,299.00	5,297.73-	27,600.00
401 COMMUNICATIONS	1,472.95	12,325.71	15,472.00	3,146.29-	18,570.00
402 RENTALS	181.00	1,828.60	1,750.00	78.60	2,100.00
403 UTILITIES	1,272.12	8,956.28	16,970.00	8,013.72-	19,750.00
405 PROF & SCIENTIFIC SERVICE	58,657.98	637,738.01	1,697,660.00	1,059,921.99-	2,176,361.00
406 OUTSIDE SERVICES	923.09	15,789.23	8,735.00	7,054.23	10,763.00
410 DATA PROCESSING	1,897.19	8,602.63	11,197.00	2,594.37-	14,168.00
414 REIMBURSEMENTS TO OTHER A	0.00	6,985.20	4,735.00	2,250.20	6,162.00
501 EQUIPMENT	29,048.44	64,144.93	50,532.00	13,612.93	56,601.00
DIVISION TOTAL	278,348.58	2,586,923.42	3,735,878.00	1,148,954.58-	4,683,681.00

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IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
7000 ENVIRONMENTAL PROTECTION DIV.					
101 PERSONAL SERVICES	444,275.98	4,310,198.62	4,451,305.00	141,106.38-	5,500,002.00
202 PERSONAL TRAVEL	6,486.96	68,227.15	131,457.00	63,229.85-	158,000.00
203 STATE VEHICLE OPERATION	1,389.36	28,341.59	33,840.00	5,498.41-	43,000.00
204 STATE VEHICLE DEPRECIATIO	4,670.00	47,030.00	53,166.00	6,136.00-	63,000.00
301 OFFICE SUPPLIES	1,691.25	24,416.05	36,901.00	12,484.95-	39,950.00
302 FACILITY MAINTENANCE SUPP	159.79	1,400.69	2,000.00	599.31-	2,500.00
303 EQUIPMENT MAINTENANCE SUP	830.32	5,841.48	6,350.00	508.52-	9,800.00
304 PROF. & SCIENTIFIC SUPPL	0.00	426.80	4,050.00	3,623.20-	5,000.00
308 OTHER SUPPLIES	713.47	12,673.97	19,487.00	6,813.03-	24,320.00
309 PRINTING & BINDING	1,559.65	11,086.35	35,167.00	24,080.65-	38,650.00
312 UNIFORMS & RELATED ITEMS	114.31	6,025.17	3,000.00	3,025.17	3,200.00
401 COMMUNICATIONS	1,932.49	26,864.39	27,000.00	135.61-	35,650.00
402 RENTALS	1,602.99	37,530.36	33,815.00	3,715.36	45,065.00
403 UTILITIES	1,005.65	7,181.58	8,661.00	1,479.42-	14,145.00
405 PROF & SCIENTIFIC SERVICE	2,950.00	402,107.66	1,099,929.00	697,821.34-	1,359,700.00
406 OUTSIDE SERVICES	2,458.20	23,340.58	30,069.00	6,728.42-	36,170.00
408 ADVERTISING & PUBLICITY	140.17	3,846.80	3,000.00	846.80	3,200.00
410 DATA PROCESSING	24,739.95	98,254.21	106,100.00	7,845.79-	137,500.00
414 REIMBURSEMENTS TO OTHER A	0.00	7,429.42	12,155.00	4,725.58-	13,950.00
501 EQUIPMENT	26,435.86	224,172.47	389,522.00	165,349.53-	456,950.00
701 LICENSES	0.00	50.00	285.00	235.00-	285.00
DIVISION TOTAL	523,156.40	5,346,445.34	6,487,259.00	1,140,813.66-	7,990,037.00

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IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
8000 FISH AND WILDLIFE DIVISION					
101 PERSONAL SERVICES	773,745.23	8,096,659.06	8,180,003.00	83,343.94-	9,981,126.00
202 PERSONAL TRAVEL	34,820.37	287,473.10	288,655.00	1,181.90-	354,865.00
203 STATE VEHICLE OPERATION	32,950.03	362,042.38	402,606.00	40,563.62-	502,455.00
204 STATE VEHICLE DEPRECIATIO	49,925.00	504,110.00	482,963.00	21,147.00	587,706.00
301 OFFICE SUPPLIES	4,278.08	169,498.69	144,154.00	25,344.69	176,090.00
302 FACILITY MAINTENANCE SUPP	20,267.32	319,279.14	382,393.00	63,113.86-	515,191.00
303 EQUIPMENT MAINTENANCE SUP	22,870.86	282,825.01	311,253.00	28,427.99-	390,099.00
307 AG.,CONSERVATION & HORT S	78,209.12	228,913.59	261,133.00	32,219.41-	364,062.00
308 OTHER SUPPLIES	3,450.56	91,130.05	87,619.00	3,511.05	107,638.00
309 PRINTING & BINDING	58.39	98,087.61	116,140.00	18,052.39-	128,226.00
312 UNIFORMS & RELATED ITEMS	8,755.78	96,437.41	110,499.00	14,061.59-	124,850.00
401 COMMUNICATIONS	11,397.32	129,943.19	123,343.00	6,600.19	161,317.00
402 RENTALS	5,824.06	33,801.09	40,178.00	6,376.91-	51,035.00
403 UTILITIES	13,615.56	153,304.02	176,692.00	23,387.98-	220,306.00
405 PROF & SCIENTIFIC SERVICE	10,072.00	96,100.23	165,806.00	69,705.77-	173,968.00
406 OUTSIDE SERVICES	9,366.58	140,194.47	108,723.00	31,471.47	140,616.00
408 ADVERTISING & PUBLICITY	725.49	14,520.23	26,870.00	12,349.77-	26,870.00
410 DATA PROCESSING	5,183.56	40,726.80	32,416.00	8,310.80	38,000.00
414 REIMBURSEMENTS TO OTHER A	7,952.31	71,845.66	83,100.00	11,254.34-	100,250.00
501 EQUIPMENT	20,095.08	237,499.57	361,158.00	123,658.43-	392,861.00
602 OTHER EXPENSES & OBLIGATI	0.00	1,450.00	500.00	950.00	600.00
701 LICENSES	15.00	135.00	141.00	6.00-	170.00
DIVISION TOTAL	1,113,577.70	11,455,976.30	11,886,345.00	430,368.70-	14,538,301.00

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IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
9000 WASTE MANAGEMENT AUTHORITY					
101 PERSONAL SERVICES	30,527.14	297,085.46	302,382.00	5,296.54-	374,082.00
202 PERSONAL TRAVEL	945.04	19,911.24	18,277.00	1,634.24	22,000.00
301 OFFICE SUPPLIES	54.54	5,051.87	6,017.00	965.13-	7,325.00
308 OTHER SUPPLIES	111.25	1,111.81	5,747.00	4,635.19-	7,000.00
309 PRINTING & BINDING	616.45	10,125.16	24,364.00	14,238.84-	27,200.00
406 OUTSIDE SERVICES	15.00	10,476.01	4,998.00	5,478.01	6,000.00
408 ADVERTISING & PUBLICITY	0.00	610.00	0.00	610.00	0.00
410 DATA PROCESSING	571.43	2,279.83	4,998.00	2,718.17-	6,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	7,323.34	10,141.00	2,817.66-	12,150.00
501 EQUIPMENT	255.78	11,324.52	15,725.00	4,400.48-	17,270.0
DIVISION TOTAL	33,096.63	365,299.24	392,649.00	27,349.76-	479,027.0

Environmental Protection Division
Cost Center and Bureau Descriptions

7110 Construction Grants Non-Grants. Wastewater operation and construction permits, including tracking compliance and report preparation.

7111 Wastewater Compliance. Record keeping and reporting for Wastewater.

7120 Construction Grants. Technical administration of the Construction Grants Program, including review of plans and specs, for construction of wastewater treatment plants.

7121 State Revolving Fund. Administration of the loan program for construction of wastewater treatment plants.

7131 Groundwater Grants Admin. Administration of grants to county governments for well testing and well closing.

7132 Water Quality Planning-205J. Water quality planning activities including water quality assessments, wasteload allocation, water quality standards, and related data management and reporting.

7133 205J Non-Point. Non-point source planning and implementation activities required by Section 319 of the Clean Water Act, and to meet State EPA commitments.

7136 Lakes Assessment. Contracts for water quality assessment in Iowa lakes.

7137 Geographic Information System. Support of Geographic Information System development.

7138 604B Water Planning. Similar to cost center 7132, but funded with State Revolving funds. Water quality planning.

7140 Flood Plain. Flood plain permits, channel change applications, dam permits, dam safety inspections, and coordination with FEMA regarding flood insurance.

7151 Water Supply. Construction and operations permits for water treatment plants and monitoring public water supplies.

7152 Water Rights. Issuing water use/withdrawal permits and drought management activities.

7153 Operator Certification. Support costs relating to issuing waste and water operator certificates.

7190 Environ. Prot. Bureau Mngt. Administrative costs associated with the Surface/Groundwater Protection Bureau.

7100 Surface/Groundwater Protection Bureau. This bureau summary includes the budgets and expenditures for the cost centers 7110 through 7190.

7310 Air Quality. This center involves the development and implementation of the State air quality plan, management of the air monitoring network, and evaluation of air quality data, trends, and problems.

7320 Waste Management Solid Waste. Issuance of permits and renewals for solid waste disposal facilities. This center also develops solid waste rules and reviews special waste disposal matters.

7321 Waste Management Oil Overcharge. This center involves the evaluation of existing landfills and uncontrolled hazardous waste sites, including the assessment of future costs for remediation and protection of Groundwater.

7331 Underground Storage Tanks. This work unit manages the underground storage tank program.

7332 L.U.S.T. Cleanup. This cost center involves the management of the Leaking Underground Storage Tank program, including identification, record keeping and remediation efforts.

7333 3012 Hazardous Waste Siting. Two major activities are included within this cost center. The first is the determination if a reported site is a potential hazard and the second involves a more thorough site inspection and sample collection as required.

7334 Remedial Activity. Activities include State management assistance on EPA lead sites, including consultation, report review, etc.

7335 AIDEX Monitoring. This center includes post closure monitoring at the AIDEX site.

7336 Super-Fund Cooperative Activities. This program involves general superfund program management, interagency coordination, legal assistance, and fiscal and contract management related to Superfund site-specific expenditures and activities.

7337 Multi-Site Enforcement. This activity involves tracking work schedules for specific sites.

7300 Air Quality/Solid Waste Protection Bureau. This is a bureau summary of all budgets and expenditures of cost centers 7310 through 7337.

7410 Emergency Response. This work unit receives spill calls, provides technical assistance, conducts training and does followup and enforcement.

7412 L.U.S.T. Cleanup. This cost center supports staffing and related costs at EPD regional offices for the L.U.S.T. program.

7421 Air Quality-Field. This cost center supports staffing and related costs at EPD regional offices for Air Quality activities.

7422 Wastewater-Field. This cost center supports staffing and related costs at EPD regional offices for Wastewater activities.

7423 Water Supply-Field. This cost center supports staffing and related costs at EPD regional offices for Water Supply activities.

7424 Waste Management-Field Groundwater. This cost center involves maintenance of records and data entry at EPD regional offices.

7490 Field/Emergency Response Bureau Management. The budgets for shared management costs such as office rent, vehicles, clerical support, etc., for the 6 EPD regional offices are included.

7400 Field/Emergency Response Bureau. This bureau summary includes the budgets and expenditures for cost centers 7410 through 7490.

7900 Environmental Protection Division Management. This cost center involves costs of division administration.

ENVIRONMENTAL PROTECTION DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
7110 CONST GRANTS NON-GRANT					
101 PERSONAL SERVICES	32,620.88	342,766.14	336,445.00	6,321.14	415,365.00
202 PERSONAL TRAVEL	851.83	4,984.46	5,500.00	515.54-	6,500.00
301 OFFICE SUPPLIES	0.00	3,609.54	7,600.00	3,990.46-	7,600.00
308 OTHER SUPPLIES	0.00	188.03	200.00	11.97-	200.00
309 PRINTING & BINDING	95.20	834.50	2,500.00	1,665.50-	2,500.00
405 PROF & SCIENTIFIC SERVICE	0.00	5,732.00	82,650.00	76,918.00-	108,000.00
406 OUTSIDE SERVICES	232.92	1,957.66	2,500.00	542.34-	2,500.00
408 ADVERTISING & PUBLICITY	0.00	12.96	200.00	187.04-	200.00
410 DATA PROCESSING	3,228.03	12,840.69	13,000.00	159.31-	15,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	513.47	1,125.00	611.53-	1,500.00
501 EQUIPMENT	0.00	30.33	2,000.00	1,969.67-	2,000.00
ORGANIZATION TOTAL	37,028.86	373,469.78	453,720.00	80,250.22-	561,365.00
7111 WASTEWATER COMPLIANCE					
101 PERSONAL SERVICES	1,890.02	14,702.74	15,178.00	475.26-	18,739.00
309 PRINTING & BINDING	0.00	93.55	500.00	406.45-	500.00
414 REIMBURSEMENTS TO OTHER A	0.00	105.95	150.00	44.05-	150.00
ORGANIZATION TOTAL	1,890.02	14,902.24	15,828.00	925.76-	19,389.00
7120 CONSTRUCTION GRANTS					
101 PERSONAL SERVICES	22,908.39	193,882.58	237,314.00	43,431.42-	292,980.00
202 PERSONAL TRAVEL	589.06	3,059.19	4,400.00	1,340.81-	5,000.00
301 OFFICE SUPPLIES	0.00	109.83	1,000.00	890.17-	1,000.00
308 OTHER SUPPLIES	0.00	82.46	50.00	32.46	50.00
309 PRINTING & BINDING	79.60	1,084.20	1,000.00	84.20	1,200.00
408 ADVERTISING & PUBLICITY	0.00	916.75	100.00	816.75	100.00
410 DATA PROCESSING	0.00	44.08	1,000.00	955.92-	1,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	531.65	750.00	218.35-	1,000.00
501 EQUIPMENT	0.00	209.28	7,600.00	7,390.72-	7,600.00
ORGANIZATION TOTAL	23,577.05	199,920.02	253,214.00	53,293.98-	309,930.00
7121 STATE REVOLVING FUND					
101 PERSONAL SERVICES	8,323.97	61,675.57	90,124.00	28,448.43-	111,264.00
202 PERSONAL TRAVEL	38.99	184.45	4,400.00	4,215.55-	5,000.00
301 OFFICE SUPPLIES	23.60	23.60	1,000.00	976.40-	1,000.00
309 PRINTING & BINDING	17.65	468.65	2,000.00	1,531.35-	2,500.00
408 ADVERTISING & PUBLICITY	61.55	61.55	100.00	38.45-	100.00
414 REIMBURSEMENTS TO OTHER A	0.00	75.95	200.00	124.05-	200.00
ORGANIZATION TOTAL	8,465.76	62,489.77	97,824.00	35,334.23-	120,064.00

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
7131 GROUNDWATER GRANTS ADMIN					
101 PERSONAL SERVICES	0.00	26,432.31	22,340.00	4,092.31	27,581.00
202 PERSONAL TRAVEL	9.00	507.15	2,400.00	1,892.85-	3,000.00
301 OFFICE SUPPLIES	0.00	34.32	0.00	34.32	0.00
308 OTHER SUPPLIES	0.00	120.00	500.00	380.00-	500.00
309 PRINTING & BINDING	65.90	211.20	750.00	538.80-	1,000.00
410 DATA PROCESSING	103.14	753.55	1,000.00	246.45-	1,000.00
ORGANIZATION TOTAL	178.04	28,058.53	26,990.00	1,068.53	33,081.00
7132 WATER QUALITY PLANNING-205J					
101 PERSONAL SERVICES	12,316.41	164,111.85	234,942.00	70,830.15-	290,052.00
202 PERSONAL TRAVEL	15.89	2,849.47	5,400.00	2,550.53-	6,000.00
308 OTHER SUPPLIES	5.45	505.02	166.00	339.02	200.00
309 PRINTING & BINDING	110.75	160.30	2,700.00	2,539.70-	3,200.00
405 PROF & SCIENTIFIC SERVICE	0.00	19,308.75	40,000.00	20,691.25-	50,000.00
406 OUTSIDE SERVICES	0.00	99.53	250.00	150.47-	250.00
410 DATA PROCESSING	1,549.55	6,611.44	2,000.00	4,611.44	2,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	478.72	565.00	86.28-	750.00
501 EQUIPMENT	0.00	1,116.33	14,800.00	13,683.67-	14,800.00
ORGANIZATION TOTAL	13,998.05	195,241.41	300,823.00	105,581.59-	367,252.00
7133 205J NON-POINT					
101 PERSONAL SERVICES	6,542.45	59,974.95	82,071.00	22,096.05-	101,322.00
202 PERSONAL TRAVEL	325.60	1,007.23	2,000.00	992.77-	2,000.00
301 OFFICE SUPPLIES	0.00	113.97	500.00	386.03-	500.00
309 PRINTING & BINDING	56.65	154.80	1,000.00	845.20-	1,000.00
405 PROF & SCIENTIFIC SERVICE	0.00	8,730.00	12,500.00	3,770.00-	25,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	151.90	200.00	48.10-	200.00
501 EQUIPMENT	0.00	4,557.59	8,000.00	3,442.41-	8,000.00
ORGANIZATION TOTAL	6,924.70	74,690.44	106,271.00	31,580.56-	138,022.00
7136 LAKES ASSESSMENT					
405 PROF & SCIENTIFIC SERVICE	0.00	18,840.00	79,583.00	60,743.00-	95,500.00
406 OUTSIDE SERVICES	0.00	96.70	0.00	96.70	0.00
ORGANIZATION TOTAL	0.00	18,936.70	79,583.00	60,646.30-	95,500.00
7137 GEOGRAPHIC INFORMATION SYSTEM					

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202 PERSONAL TRAVEL	0.00	196.39	2,000.00	1,803.61-	2,000.00
301 OFFICE SUPPLIES	0.00	61.60	200.00	138.40-	200.00
309 PRINTING & BINDING	0.00	12.85	500.00	487.15-	500.00
410 DATA PROCESSING	2,902.55	5,424.28	0.00	5,424.28	0.00
ORGANIZATION TOTAL	2,902.55	5,695.12	2,700.00	2,995.12	2,700.00
7138 604B WATER PLANNING					
101 PERSONAL SERVICES	5,362.57	44,092.77	0.00	44,092.77	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	81.32	0.00	81.32	0.00
ORGANIZATION TOTAL	5,362.57	44,174.09	0.00	44,174.09	0.00
7140 FLOOD PLAIN					
101 PERSONAL SERVICES	23,285.44	240,187.49	278,559.00	38,371.51-	343,900.00
202 PERSONAL TRAVEL	26.55	3,905.77	3,850.00	55.77	4,500.00
301 OFFICE SUPPLIES	0.00	16.25	1,000.00	983.75-	1,000.00
308 OTHER SUPPLIES	26.80	463.20	400.00	63.20	400.00
309 PRINTING & BINDING	18.20	121.15	2,000.00	1,878.85-	2,000.00
406 OUTSIDE SERVICES	0.00	25.00	20.00	5.00	20.00
408 ADVERTISING & PUBLICITY	0.00	199.82	50.00	149.82	50.00
410 DATA PROCESSING	694.01	2,675.91	3,000.00	324.09-	3,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	75.00	0.00	75.00	0.00
701 LICENSES	0.00	50.00	285.00	235.00-	285.00
ORGANIZATION TOTAL	24,051.00	247,719.59	289,164.00	41,444.41-	355,155.00
7151 WATER SUPPLY					
101 PERSONAL SERVICES	26,774.24	258,736.37	247,171.00	11,565.37	305,150.00
202 PERSONAL TRAVEL	80.00	2,102.83	4,000.00	1,897.17-	4,000.00
301 OFFICE SUPPLIES	0.00	3,728.45	6,500.00	2,771.55-	6,500.00
308 OTHER SUPPLIES	9.74	127.76	100.00	27.76	100.00
309 PRINTING & BINDING	51.10	923.10	2,500.00	1,576.90-	2,500.00
405 PROF & SCIENTIFIC SERVICE	0.00	32,112.50	35,000.00	2,887.50-	70,000.00
406 OUTSIDE SERVICES	195.24	483.84	1,000.00	516.16-	1,000.00
408 ADVERTISING & PUBLICITY	0.00	120.93	50.00	70.93	50.00
410 DATA PROCESSING	2,536.25	13,276.16	30,000.00	16,723.84-	40,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	485.70	565.00	79.30-	750.00
501 EQUIPMENT	0.00	8,389.28	10,000.00	1,610.72-	10,000.00
ORGANIZATION TOTAL	29,646.57	320,486.92	336,886.00	16,399.08-	440,050.00
7152 WATER RIGHTS					

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101 PERSONAL SERVICES	10,875.84	130,978.91	99,134.00	31,844.91	122,392.00
202 PERSONAL TRAVEL	80.00	2,021.22	2,000.00	21.22	2,000.00
301 OFFICE SUPPLIES	0.00	682.45	200.00	482.45	200.00
309 PRINTING & BINDING	24.30	710.45	2,500.00	1,789.55-	2,500.00
406 OUTSIDE SERVICES	0.00	37.00	166.00	129.00-	200.00
408 ADVERTISING & PUBLICITY	78.62	2,244.61	1,500.00	744.61	1,500.00
410 DATA PROCESSING	664.73	2,810.77	3,000.00	189.23-	3,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	30.00	0.00	30.00	0.00
501 EQUIPMENT	0.00	1,850.64	1,200.00	650.64	1,200.00
ORGANIZATION TOTAL	11,723.49	141,366.05	109,700.00	31,666.05	132,992.00
7153 OPERATOR CERTIFICATION					
202 PERSONAL TRAVEL	0.00	10.39	0.00	10.39	0.00
301 OFFICE SUPPLIES	620.00	1,683.60	2,300.00	616.40-	2,300.00
309 PRINTING & BINDING	197.15	281.75	200.00	81.75	200.00
402 RENTALS	0.00	120.00	65.00	55.00	65.00
406 OUTSIDE SERVICES	0.00	245.00	500.00	255.00-	500.00
410 DATA PROCESSING	136.43	451.36	2,000.00	1,548.64-	2,000.00
ORGANIZATION TOTAL	953.58	2,792.10	5,065.00	2,272.90-	5,065.00
7190 ENVIRON. PROT. BUREAU MGMT.					
101 PERSONAL SERVICES	4,866.91	9,734.56	49,516.00	39,781.44-	61,130.00
202 PERSONAL TRAVEL	0.00	2,217.06	3,000.00	782.94-	3,000.00
308 OTHER SUPPLIES	22.00	22.00	150.00	128.00-	150.00
309 PRINTING & BINDING	0.00	9.00	300.00	291.00-	300.00
410 DATA PROCESSING	92.38	391.80	833.00	441.20-	1,000.00
ORGANIZATION TOTAL	4,981.29	12,374.42	53,799.00	41,424.58-	65,580.00
7100 SURFACE/GRNDWTR PROT. BUREAU					
101 PERSONAL SERVICES	155,767.12	1,547,276.24	1,692,794.00	145,517.76-	2,089,875.00
202 PERSONAL TRAVEL	2,016.92	23,045.61	38,950.00	15,904.39-	43,000.00
301 OFFICE SUPPLIES	643.60	10,063.61	20,300.00	10,236.39-	20,300.00
308 OTHER SUPPLIES	63.99	1,508.47	1,566.00	57.53-	1,600.00
309 PRINTING & BINDING	716.50	5,065.50	18,450.00	13,384.50-	19,900.00
402 RENTALS	0.00	120.00	65.00	55.00	65.00
405 PROF & SCIENTIFIC SERVICE	0.00	84,723.25	249,733.00	165,009.75-	348,500.00
406 OUTSIDE SERVICES	428.16	2,944.73	4,436.00	1,491.27-	4,470.00
408 ADVERTISING & PUBLICITY	140.17	3,556.62	2,000.00	1,556.62	2,000.00
410 DATA PROCESSING	11,907.07	45,280.04	55,833.00	10,552.96-	68,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	2,529.66	3,555.00	1,025.34-	4,550.00
501 EQUIPMENT	0.00	16,153.45	43,600.00	27,446.55-	43,600.00

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701 LICENSES	0.00	50.00	285.00	235.00-	285.00
BUREAU TOTAL	171,683.53	1,742,317.18	2,131,567.00	389,249.82-	2,646,145.00
7310 AIR QUALITY					
101 PERSONAL SERVICES	31,392.95	298,797.70	299,627.00	829.30-	371,681.00
202 PERSONAL TRAVEL	0.00	5,239.75	7,450.00	2,210.25-	11,500.00
301 OFFICE SUPPLIES	0.00	190.76	450.00	259.24-	500.00
302 FACILITY MAINTENANCE SUPP	0.00	922.15	500.00	422.15	500.00
303 EQUIPMENT MAINTENANCE SUP	0.00	467.34	500.00	32.66-	1,000.00
308 OTHER SUPPLIES	0.00	687.85	50.00	637.85	50.00
309 PRINTING & BINDING	103.20	840.60	1,000.00	159.40-	1,200.00
401 COMMUNICATIONS	91.72	921.74	4,500.00	3,578.26-	5,650.00
403 UTILITIES	567.35	3,495.27	3,781.00	285.73-	7,645.00
405 PROF & SCIENTIFIC SERVICE	0.00	127,973.23	252,035.00	124,061.77-	252,535.00
406 OUTSIDE SERVICES	1,464.25	14,800.25	17,010.00	2,209.75-	20,700.00
408 ADVERTISING & PUBLICITY	0.00	290.18	1,000.00	709.82-	1,200.00
410 DATA PROCESSING	1,574.51	5,967.80	9,000.00	3,032.20-	19,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	648.66	1,000.00	351.34-	1,200.00
501 EQUIPMENT	0.00	53,436.96	76,423.00	22,986.04-	113,350.00
ORGANIZATION TOTAL	35,193.98	514,680.24	674,326.00	159,645.76-	807,711.00
7320 WASTE MANAGEMENT SOLID WASTE					
101 PERSONAL SERVICES	13,941.84	112,130.19	143,702.00	31,571.81-	177,410.00
202 PERSONAL TRAVEL	0.00	1,574.38	4,800.00	3,225.62-	5,000.00
301 OFFICE SUPPLIES	0.00	123.85	50.00	73.85	50.00
309 PRINTING & BINDING	0.00	671.10	250.00	421.10	250.00
405 PROF & SCIENTIFIC SERVICE	0.00	7,380.00	0.00	7,380.00	0.00
406 OUTSIDE SERVICES	80.00	1,062.50	855.00	207.50	1,000.00
410 DATA PROCESSING	949.52	3,909.79	8,000.00	4,090.21-	8,000.00
ORGANIZATION TOTAL	14,971.36	126,851.81	157,657.00	30,805.19-	191,710.00
7321 WASTE MANAGEMENT OIL OVERCHRGE					
101 PERSONAL SERVICES	14,409.69	141,253.03	167,497.00	26,243.97-	206,786.00
202 PERSONAL TRAVEL	729.70	2,950.40	3,000.00	49.60-	5,000.00
301 OFFICE SUPPLIES	2.00	221.57	450.00	228.43-	500.00
309 PRINTING & BINDING	0.00	84.35	5,000.00	4,915.65-	5,000.00
312 UNIFORMS & RELATED ITEMS	0.00	357.12	0.00	357.12	0.00
406 OUTSIDE SERVICES	0.00	85.00	400.00	315.00-	500.00
414 REIMBURSEMENTS TO OTHER A	0.00	390.00	1,125.00	735.00-	1,500.00
501 EQUIPMENT	1,969.02	50,054.10	23,333.00	26,721.10	28,000.00
ORGANIZATION TOTAL	17,110.41	195,395.57	200,805.00	5,409.43-	247,286.00

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7331 UNDERGROUND STORAGE TANKS					
101 PERSONAL SERVICES	13,944.54	128,450.02	127,005.00	1,445.02	156,795.00
202 PERSONAL TRAVEL	288.63	2,734.76	6,667.00	3,932.24-	8,000.00
301 OFFICE SUPPLIES	141.54	142.54	834.00	691.46-	1,000.00
308 OTHER SUPPLIES	15.00	3,214.17	834.00	2,380.17	1,000.00
309 PRINTING & BINDING	674.20	2,466.05	5,000.00	2,533.95-	6,000.00
405 PROF & SCIENTIFIC SERVICE	0.00	1,760.00	0.00	1,760.00	0.00
406 OUTSIDE SERVICES	160.00	282.13	834.00	551.87-	1,000.00
410 DATA PROCESSING	1,926.25	8,760.55	5,417.00	3,343.55	6,500.00
414 REIMBURSEMENTS TO OTHER A	0.00	322.78	400.00	77.22-	500.00
501 EQUIPMENT	2,786.30	14,784.24	50,000.00	35,215.76-	50,000.00
ORGANIZATION TOTAL	19,936.46	162,917.24	196,991.00	34,073.76-	230,795.00
7332 L.U.S.T. CLEANUP					
101 PERSONAL SERVICES	28,224.23	213,363.11	137,137.00	76,226.11	169,305.00
202 PERSONAL TRAVEL	0.00	2,794.19	12,500.00	9,705.81-	15,000.00
301 OFFICE SUPPLIES	111.61	336.63	834.00	497.37-	1,000.00
308 OTHER SUPPLIES	0.00	1,921.44	417.00	1,504.44	500.00
309 PRINTING & BINDING	58.85	509.20	4,167.00	3,657.80-	5,000.00
405 PROF & SCIENTIFIC SERVICE	1,590.00	36,768.74	291,666.00	254,897.26-	350,000.00
406 OUTSIDE SERVICES	62.10	379.80	834.00	454.20-	1,000.00
501 EQUIPMENT	17,590.24	27,550.01	100,000.00	72,449.99-	120,000.00
ORGANIZATION TOTAL	47,637.03	283,623.12	547,555.00	263,931.88-	661,805.00
7333 3012 HAZARDOUS WASTE SITING					
101 PERSONAL SERVICES	11,216.08	70,157.92	130,876.00	60,718.08-	161,576.00
202 PERSONAL TRAVEL	101.50	2,731.98	4,000.00	1,268.02-	5,000.00
203 STATE VEHICLE OPERATION	49.20	1,035.52	0.00	1,035.52	0.00
301 OFFICE SUPPLIES	14.48	516.83	2,333.00	1,816.17-	2,800.00
303 EQUIPMENT MAINTENANCE SUP	0.00	244.41	3,000.00	2,755.59-	5,000.00
304 PROF. & SCIENTIFIC SUPPL	0.00	426.80	4,050.00	3,623.20-	5,000.00
308 OTHER SUPPLIES	35.28	456.85	7,500.00	7,043.15-	10,000.00
312 UNIFORMS & RELATED ITEMS	0.00	19.74	1,000.00	980.26-	1,000.00
405 PROF & SCIENTIFIC SERVICE	0.00	27,863.00	153,075.00	125,212.00-	204,100.00
410 DATA PROCESSING	849.07	853.82	0.00	853.82	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	60.00	225.00	165.00-	300.00
501 EQUIPMENT	4,076.45	47,962.01	60,000.00	12,037.99-	60,000.00
ORGANIZATION TOTAL	16,342.06	152,328.88	366,059.00	213,730.12-	454,776.00
7334 REMEDIAL ACTIVITY					

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101 PERSONAL SERVICES	0.00	14,343.10	0.00	14,343.10	1.00
202 PERSONAL TRAVEL	0.00	94.55	800.00	705.45-	1,000.00
ORGANIZATION TOTAL	0.00	14,437.65	800.00	13,637.65	1,001.00
7335 AIDEX MONITORING					
101 PERSONAL SERVICES	0.00	5,475.73	0.00	5,475.73	1.00
202 PERSONAL TRAVEL	0.00	432.13	800.00	367.87-	1,000.00
308 OTHER SUPPLIES	0.00	553.12	1,000.00	446.88-	1,000.00
405 PROF & SCIENTIFIC SERVICE	0.00	3,640.00	7,500.00	3,860.00-	10,000.00
ORGANIZATION TOTAL	0.00	10,100.98	9,300.00	800.98	12,001.00
7336 SUPER-FUND CORP ACTIVITIES					
101 PERSONAL SERVICES	14,153.62	134,913.52	141,522.00	6,608.48-	174,719.00
202 PERSONAL TRAVEL	352.12	2,414.00	8,000.00	5,586.00-	10,000.00
301 OFFICE SUPPLIES	196.70	2,182.77	0.00	2,182.77	0.00
309 PRINTING & BINDING	6.90	1,146.40	0.00	1,146.40	0.00
312 UNIFORMS & RELATED ITEMS	0.00	92.79	0.00	92.79	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	545.70	150.00	395.70	200.00
501 EQUIPMENT	0.00	4,096.29	14,166.00	10,069.71-	17,000.00
ORGANIZATION TOTAL	14,709.34	145,391.47	163,838.00	18,446.53-	201,919.00
7337 MULTI-SITE ENFORCEMENT					
101 PERSONAL SERVICES	0.00	10,903.47	1.00	10,902.47	1.00
202 PERSONAL TRAVEL	95.87	104.37	3,000.00	2,895.63-	4,000.00
405 PROF & SCIENTIFIC SERVICE	1,360.00	1,920.00	12,000.00	10,080.00-	16,000.00
ORGANIZATION TOTAL	1,455.87	12,927.84	15,001.00	2,073.16-	20,001.00
7300 AIR QUALITY/SOLID WASTER PROT.					
101 PERSONAL SERVICES	127,282.95	1,129,787.79	1,147,367.00	17,579.21-	1,418,275.00
202 PERSONAL TRAVEL	1,412.33	21,070.51	51,017.00	29,946.49-	65,500.00
203 STATE VEHICLE OPERATION	49.20	1,035.52	0.00	1,035.52	0.00
301 OFFICE SUPPLIES	466.33	3,714.95	4,951.00	1,236.05-	5,850.00
302 FACILITY MAINTENANCE SUPP	0.00	922.15	500.00	422.15	500.00
303 EQUIPMENT MAINTENANCE SUP	0.00	711.75	3,500.00	2,788.25-	6,000.00
304 PROF. & SCIENTIFIC SUPPL	0.00	426.80	4,050.00	3,623.20-	5,000.00
308 OTHER SUPPLIES	50.28	6,833.43	9,801.00	2,967.57-	12,550.00
309 PRINTING & BINDING	843.15	5,717.70	15,417.00	9,699.30-	17,450.00
312 UNIFORMS & RELATED ITEMS	0.00	469.65	1,000.00	530.35-	1,000.00
401 COMMUNICATIONS	91.72	921.74	4,500.00	3,578.26-	5,650.00

IOWA DEPARTMENT OF NATURAL RESOURCES
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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
403 UTILITIES	567.35	3,495.27	3,781.00	285.73-	7,645.00
405 PROF & SCIENTIFIC SERVICE	2,950.00	207,304.97	716,276.00	508,971.03-	832,635.00
406 OUTSIDE SERVICES	1,766.35	16,609.68	19,933.00	3,323.32-	24,200.00
408 ADVERTISING & PUBLICITY	0.00	290.18	1,000.00	709.82-	1,200.00
410 DATA PROCESSING	5,299.35	19,491.96	22,417.00	2,925.04-	33,500.00
414 REIMBURSEMENTS TO OTHER A	0.00	1,967.14	2,900.00	932.86-	3,700.00
501 EQUIPMENT	26,422.01	197,883.61	323,922.00	126,038.39-	388,350.00
BUREAU TOTAL	167,201.02	1,618,654.80	2,332,332.00	713,677.20-	2,829,005.00
7410 EMERGENCY RESPONSE					
101 PERSONAL SERVICES	10,188.14	94,167.42	104,609.00	10,441.58-	129,479.00
202 PERSONAL TRAVEL	352.61	3,504.01	3,330.00	174.01	4,000.00
301 OFFICE SUPPLIES	0.00	12.50	500.00	487.50-	500.00
303 EQUIPMENT MAINTENANCE SUP	0.00	2,344.81	600.00	1,744.81	800.00
308 OTHER SUPPLIES	0.00	24.48	2,820.00	2,795.52-	3,470.00
309 PRINTING & BINDING	0.00	214.35	800.00	585.65-	800.00
312 UNIFORMS & RELATED ITEMS	0.00	70.20	100.00	29.80-	100.00
410 DATA PROCESSING	110.57	463.82	850.00	386.18-	1,000.00
501 EQUIPMENT	0.00	1,946.18	0.00	1,946.18	0.00
ORGANIZATION TOTAL	10,651.32	102,747.77	113,609.00	10,861.23-	140,149.00
7412 L.U.S.T. CLEANUP					
101 PERSONAL SERVICES	15,024.43	146,576.47	146,300.00	276.47	181,221.00
202 PERSONAL TRAVEL	417.24	3,188.74	9,100.00	5,911.26-	11,000.00
203 STATE VEHICLE OPERATION	474.75	5,349.90	6,660.00	1,310.10-	8,000.00
204 STATE VEHICLE DEPRECIATIO	1,230.00	12,300.00	14,000.00	1,700.00-	16,000.00
308 OTHER SUPPLIES	22.21	23.21	1,600.00	1,576.79-	2,000.00
312 UNIFORMS & RELATED ITEMS	87.82	162.02	600.00	437.98-	600.00
414 REIMBURSEMENTS TO OTHER A	0.00	415.04	500.00	84.96-	500.00
ORGANIZATION TOTAL	17,256.45	168,015.38	178,760.00	10,744.62-	219,321.00
7413 L.U.S.T. OPERATIONS					
101 PERSONAL SERVICES	0.00	7.64	0.00	7.64	0.00
ORGANIZATION TOTAL	0.00	7.64	0.00	7.64	0.00
7421 AIR QUALITY-FIELD					
101 PERSONAL SERVICES	13,035.53	127,751.23	133,912.00	6,160.77-	165,731.00
202 PERSONAL TRAVEL	25.13	432.95	3,700.00	3,267.05-	4,500.00
308 OTHER SUPPLIES	0.00	67.04	400.00	332.96-	500.00

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
414 REIMBURSEMENTS TO OTHER A	0.00	311.00	500.00	189.00-	500.00
ORGANIZATION TOTAL	13,060.66	128,562.22	138,512.00	9,949.78-	171,231.00
7422 WASTERWATER-FIELD					
101 PERSONAL SERVICES	82,770.03	835,863.11	809,300.00	26,563.11	1,001,488.00
202 PERSONAL TRAVEL	1,596.71	10,342.20	13,700.00	3,357.80-	16,500.00
301 OFFICE SUPPLIES	5.66	23.63	900.00	876.37-	1,000.00
308 OTHER SUPPLIES	62.84	728.84	800.00	71.16-	1,000.00
312 UNIFORMS & RELATED ITEMS	26.49	5,276.61	800.00	4,476.61	1,000.00
405 PROF & SCIENTIFIC SERVICE	0.00	110,032.50	133,920.00	23,887.50-	178,565.00
414 REIMBURSEMENTS TO OTHER A	0.00	1,325.58	3,000.00	1,674.42-	3,000.00
ORGANIZATION TOTAL	84,461.73	963,592.47	962,420.00	1,172.47	1,202,553.00
7423 WATER SUPPLY-FIELD					
101 PERSONAL SERVICES	17,239.32	166,930.15	166,450.00	480.15	205,958.00
202 PERSONAL TRAVEL	666.02	3,815.45	4,160.00	344.55-	5,000.00
308 OTHER SUPPLIES	25.00	228.67	200.00	28.67	200.00
405 PROF & SCIENTIFIC SERVICE	0.00	46.94	0.00	46.94	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	345.30	800.00	454.70-	800.00
ORGANIZATION TOTAL	17,930.34	171,366.51	171,610.00	243.49-	211,958.00
7424 WASTE MANAGEMENT-FIELD GW					
101 PERSONAL SERVICES	3,064.23	39,756.45	40,933.00	1,176.55-	50,666.00
202 PERSONAL TRAVEL	0.00	16.88	500.00	483.12-	500.00
406 OUTSIDE SERVICES	0.00	10.15	0.00	10.15	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	455.70	500.00	44.30-	500.00
ORGANIZATION TOTAL	3,064.23	40,239.18	41,933.00	1,693.82-	51,666.00
7490 FIELD/EMR RESP BUREAU MGMT					
101 PERSONAL SERVICES	14,232.62	165,614.15	151,199.00	14,415.15	187,179.00
202 PERSONAL TRAVEL	0.00	842.59	4,500.00	3,657.41-	5,000.00
203 STATE VEHICLE OPERATION	865.41	21,956.17	27,180.00	5,223.83-	35,000.00
204 STATE VEHICLE DEPRECIATIO	3,440.00	34,730.00	39,166.00	4,436.00-	47,000.00
301 OFFICE SUPPLIES	557.97	9,131.30	10,000.00	868.70-	12,000.00
302 FACILITY MAINTENANCE SUPP	159.79	478.54	1,500.00	1,021.46-	2,000.00
303 EQUIPMENT MAINTENANCE SUP	830.32	2,784.92	2,250.00	534.92	3,000.00
308 OTHER SUPPLIES	489.15	3,259.83	2,300.00	959.83	3,000.00
309 PRINTING & BINDING	0.00	88.80	500.00	411.20-	500.00
312 UNIFORMS & RELATED ITEMS	0.00	46.69	500.00	453.31-	500.00

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
401 COMMUNICATIONS	1,840.77	25,942.65	22,500.00	3,442.65	30,000.00
402 RENTALS	1,602.99	37,410.36	33,750.00	3,660.36	45,000.00
403 UTILITIES	438.30	3,686.31	4,880.00	1,193.69-	6,500.00
406 OUTSIDE SERVICES	263.69	3,776.02	5,700.00	1,923.98-	7,500.00
410 DATA PROCESSING	7,331.15	32,626.74	27,000.00	5,626.74	35,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	80.00	400.00	320.00-	400.00
501 EQUIPMENT	13.85	8,189.23	22,000.00	13,810.77-	25,000.00
ORGANIZATION TOTAL	32,066.01	350,644.30	355,325.00	4,680.70-	444,579.00
7400 FIELD/EMERG. RESPONSE BUREAU					
101 PERSONAL SERVICES	155,554.30	1,576,658.98	1,552,703.00	23,955.98	1,921,722.00
202 PERSONAL TRAVEL	3,057.71	22,142.82	38,990.00	16,847.18-	46,500.00
203 STATE VEHICLE OPERATION	1,340.16	27,306.07	33,840.00	6,533.93-	43,000.00
204 STATE VEHICLE DEPRECIATIO	4,670.00	47,030.00	53,166.00	6,136.00-	63,000.00
301 OFFICE SUPPLIES	563.63	9,167.43	11,400.00	2,232.57-	13,500.00
302 FACILITY MAINTENANCE SUPP	159.79	478.54	1,500.00	1,021.46-	2,000.00
303 EQUIPMENT MAINTENANCE SUP	830.32	5,129.73	2,850.00	2,279.73	3,800.00
308 OTHER SUPPLIES	599.20	4,332.07	8,120.00	3,787.93-	10,170.00
309 PRINTING & BINDING	0.00	303.15	1,300.00	996.85-	1,300.00
312 UNIFORMS & RELATED ITEMS	114.31	5,555.52	2,000.00	3,555.52	2,200.00
401 COMMUNICATIONS	1,840.77	25,942.65	22,500.00	3,442.65	30,000.00
402 RENTALS	1,602.99	37,410.36	33,750.00	3,660.36	45,000.00
403 UTILITIES	438.30	3,686.31	4,880.00	1,193.69-	6,500.00
405 PROF & SCIENTIFIC SERVICE	0.00	110,079.44	133,920.00	23,840.56-	178,565.00
406 OUTSIDE SERVICES	263.69	3,786.17	5,700.00	1,913.83-	7,500.00
410 DATA PROCESSING	7,441.72	33,090.56	27,850.00	5,240.56	36,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	2,932.62	5,700.00	2,767.38-	5,700.00
501 EQUIPMENT	13.85	10,135.41	22,000.00	11,864.59-	25,000.00
BUREAU TOTAL	178,490.74	1,925,167.83	1,962,169.00	37,001.17-	2,441,457.00
7900 ENVIRON. PROTECTION DIV. MGMT					
101 PERSONAL SERVICES	5,671.61	56,475.61	58,441.00	1,965.39-	70,130.00
202 PERSONAL TRAVEL	0.00	1,968.21	2,500.00	531.79-	3,000.00
301 OFFICE SUPPLIES	17.69	1,470.06	250.00	1,220.06	300.00
410 DATA PROCESSING	91.81	391.65	0.00	391.65	0.00
ORGANIZATION TOTAL	5,781.11	60,305.53	61,191.00	885.47-	73,430.00
7900 ENVIRON. PROTECTION DIV. MGMT					
101 PERSONAL SERVICES	5,671.61	56,475.61	58,441.00	1,965.39-	70,130.00
202 PERSONAL TRAVEL	0.00	1,968.21	2,500.00	531.79-	3,000.00
301 OFFICE SUPPLIES	17.69	1,470.06	250.00	1,220.06	300.00

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
410 DATA PROCESSING	91.81	391.65	0.00	391.65	0.00
BUREAU TOTAL	5,781.11	60,305.53	61,191.00	885.47-	73,430.00
7000 ENVIRONMENTAL PROTECTION DIV.					
101 PERSONAL SERVICES	444,275.98	4,310,198.62	4,451,305.00	141,106.38-	5,500,002.00
202 PERSONAL TRAVEL	6,486.96	68,227.15	131,457.00	63,229.85-	158,000.00
203 STATE VEHICLE OPERATION	1,389.36	28,341.59	33,840.00	5,498.41-	43,000.00
204 STATE VEHICLE DEPRECIATIO	4,670.00	47,030.00	53,166.00	6,136.00-	63,000.00
301 OFFICE SUPPLIES	1,691.25	24,416.05	36,901.00	12,484.95-	39,950.00
302 FACILITY MAINTENANCE SUPP	159.79	1,400.69	2,000.00	599.31-	2,500.00
303 EQUIPMENT MAINTENANCE SUP	830.32	5,841.48	6,350.00	508.52-	9,800.00
304 PROF. & SCIENTIFIC SUPPL	0.00	426.80	4,050.00	3,623.20-	5,000.00
308 OTHER SUPPLIES	713.47	12,673.97	19,487.00	6,813.03-	24,320.00
309 PRINTING & BINDING	1,559.65	11,086.35	35,167.00	24,080.65-	38,650.00
312 UNIFORMS & RELATED ITEMS	114.31	6,025.17	3,000.00	3,025.17	3,200.00
401 COMMUNICATIONS	1,932.49	26,864.39	27,000.00	135.61-	35,650.00
402 RENTALS	1,602.99	37,530.36	33,815.00	3,715.36	45,065.00
403 UTILITIES	1,005.65	7,181.58	8,661.00	1,479.42-	14,145.00
405 PROF & SCIENTIFIC SERVICE	2,950.00	402,107.66	1,099,929.00	697,821.34-	1,359,700.00
406 OUTSIDE SERVICES	2,458.20	23,340.58	30,069.00	6,728.42-	36,170.00
408 ADVERTISING & PUBLICITY	140.17	3,846.80	3,000.00	846.80	3,200.00
410 DATA PROCESSING	24,739.95	98,254.21	106,100.00	7,845.79-	137,500.00
414 REIMBURSEMENTS TO OTHER A	0.00	7,429.42	12,155.00	4,725.58-	13,950.00
501 EQUIPMENT	26,435.86	224,172.47	389,522.00	165,349.53-	456,950.00
701 LICENSES	0.00	50.00	285.00	235.00-	285.00
DIVISION TOTAL	523,156.40	5,346,445.34	6,487,259.00	1,140,813.66-	7,990,037.00

COORDINATION + INFORMATION DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES
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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
2110 LEGAL					
101 PERSONAL SERVICES	21,864.82	223,469.43	225,579.00	2,109.57-	279,667.00
202 PERSONAL TRAVEL	0.00	2,194.37	2,199.00	4.63-	4,000.00
301 OFFICE SUPPLIES	99.00	799.63	1,499.00	699.37-	2,000.00
308 OTHER SUPPLIES	30.31	237.18	200.00	37.18	200.00
309 PRINTING & BINDING	789.80	7,283.42	9,268.00	1,984.58-	9,500.00
406 OUTSIDE SERVICES	15.88	10,304.35	12,500.00	2,195.65-	25,000.00
410 DATA PROCESSING	1,103.52	2,609.12	2,400.00	209.12	4,200.00
501 EQUIPMENT	556.05	3,501.61	4,400.00	898.39-	4,400.00
ORGANIZATION TOTAL	24,459.38	250,399.11	258,045.00	7,645.89-	328,967.00
2120 LEGISLATIVE LIASION					
101 PERSONAL SERVICES	4,251.83	48,041.06	43,552.00	4,489.06	53,922.00
202 PERSONAL TRAVEL	614.56	3,972.69	6,000.00	2,027.31-	7,000.00
406 OUTSIDE SERVICES	0.00	600.00	0.00	600.00	0.00
410 DATA PROCESSING	108.64	461.83	1,500.00	1,038.17-	1,800.00
501 EQUIPMENT	0.00	4,503.35	6,000.00	1,496.65-	6,000.00
ORGANIZATION TOTAL	4,975.03	57,578.93	57,052.00	526.93	68,722.00
2100 GOVERNMENTAL LIASION BUREAU					
101 PERSONAL SERVICES	26,116.65	271,510.49	269,131.00	2,379.49	333,589.00
202 PERSONAL TRAVEL	614.56	6,167.06	8,199.00	2,031.94-	11,000.00
301 OFFICE SUPPLIES	99.00	799.63	1,499.00	699.37-	2,000.00
308 OTHER SUPPLIES	30.31	237.18	200.00	37.18	200.00
309 PRINTING & BINDING	789.80	7,283.42	9,268.00	1,984.58-	9,500.00
406 OUTSIDE SERVICES	15.88	10,904.35	12,500.00	1,595.65-	25,000.00
410 DATA PROCESSING	1,212.16	3,070.95	3,900.00	829.05-	6,000.00
501 EQUIPMENT	556.05	8,004.96	10,400.00	2,395.04-	10,400.00
BUREAU TOTAL	29,434.41	307,978.04	315,097.00	7,118.96-	397,689.00
2310 PUBLICATIONS					
101 PERSONAL SERVICES	28,234.78	308,527.15	337,601.00	29,073.85-	406,321.00
202 PERSONAL TRAVEL	282.21	6,552.46	6,750.00	197.54-	9,000.00
203 STATE VEHICLE OPERATION	1,093.66	4,516.18	4,823.00	306.82-	6,431.00
204 STATE VEHICLE DEPRECIATIO	715.00	6,505.00	7,501.00	996.00-	10,000.00
301 OFFICE SUPPLIES	20.00	61,343.87	49,500.00	11,843.87	66,000.00
302 FACILITY MAINTENANCE SUPP	35.00	788.83	1,000.00	211.17-	1,000.00
303 EQUIPMENT MAINTENANCE SUP	125.45	2,584.02	2,250.00	334.02	3,000.00
308 OTHER SUPPLIES	2,017.24	16,686.44	11,250.00	5,436.44	15,000.00
309 PRINTING & BINDING	35,626.07	238,168.84	236,250.00	1,918.84	315,000.00

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
101 PERSONAL SERVICES	2,542.80	29,368.83	25,055.00	4,313.83	31,020.00
ORGANIZATION TOTAL	2,542.80	29,368.83	25,055.00	4,313.83	31,020.00
2350 GROUNDWATER EDUCATION					
101 PERSONAL SERVICES	2,855.30	29,260.26	30,273.00	1,012.74-	36,327.00
202 PERSONAL TRAVEL	207.38	2,090.75	3,001.00	910.25-	4,000.00
308 OTHER SUPPLIES	2,938.96	15,726.26	751.00	14,975.26	1,000.00
309 PRINTING & BINDING	0.00	9,157.75	17,000.00	7,842.25-	17,000.00
405 PROF & SCIENTIFIC SERVICE	0.00	8,120.00	25,120.00	17,000.00-	28,120.00
406 OUTSIDE SERVICES	69.62	515.65	0.00	515.65	0.00
501 EQUIPMENT	0.00	4,817.42	4,700.00	117.42	4,700.00
ORGANIZATION TOTAL	6,071.26	69,688.09	80,845.00	11,156.91-	91,147.00
2300 INFORMATION AND EDUCATION BUR.					
101 PERSONAL SERVICES	55,406.79	592,990.10	624,040.00	31,049.90-	751,003.00
202 PERSONAL TRAVEL	963.87	15,969.28	14,325.00	1,644.28	19,300.00
203 STATE VEHICLE OPERATION	1,407.26	7,686.44	8,198.00	511.56-	10,931.00
204 STATE VEHICLE DEPRECIATIO	1,260.00	11,955.00	13,275.00	1,320.00-	17,700.00
301 OFFICE SUPPLIES	36.00	62,896.71	51,376.00	11,520.71	68,500.00
302 FACILITY MAINTENANCE SUPP	1,273.25	14,121.05	18,249.00	4,127.95-	24,000.00
303 EQUIPMENT MAINTENANCE SUP	516.58	9,483.95	9,000.00	483.95	12,000.00
307 AG.,CONSERVATION & HORT S	0.00	220.00	500.00	280.00-	500.00
308 OTHER SUPPLIES	5,705.93	53,689.72	21,375.00	32,314.72	28,500.00
309 PRINTING & BINDING	40,754.77	264,878.29	274,213.00	9,334.71-	359,950.00
312 UNIFORMS & RELATED ITEMS	0.00	2,372.54	2,637.00	264.46-	2,850.00
401 COMMUNICATIONS	1,088.56	10,245.17	6,899.00	3,346.17	9,200.00
402 RENTALS	177.27	781.41	500.00	281.41	500.00
403 UTILITIES	69.67	19,534.86	20,060.00	525.14-	26,750.00
405 PROF & SCIENTIFIC SERVICE	0.00	41,317.50	83,920.00	42,602.50-	86,920.00
406 OUTSIDE SERVICES	4,821.68	27,961.81	23,750.00	4,211.81	35,000.00
408 ADVERTISING & PUBLICITY	907.30	7,885.12	12,500.00	4,614.88-	12,500.00
410 DATA PROCESSING	640.20	2,764.70	5,850.00	3,085.30-	7,800.00
414 REIMBURSEMENTS TO OTHER A	0.00	105.00	0.00	105.00	0.00
501 EQUIPMENT	5,337.56	42,364.80	44,050.00	1,685.20-	44,050.00
BUREAU TOTAL	120,366.69	1,189,223.45	1,234,717.00	45,493.55-	1,517,954.00
2410 OUTDOOR RECREATION					
101 PERSONAL SERVICES	21,966.59	236,522.30	267,211.00	30,688.70-	330,833.00
202 PERSONAL TRAVEL	260.80	10,035.54	7,875.00	2,160.54	10,500.00
301 OFFICE SUPPLIES	0.00	7.53	0.00	7.53	0.00
308 OTHER SUPPLIES	0.00	474.85	0.00	474.85	0.00

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
312 UNIFORMS & RELATED ITEMS	0.00	56.41	450.00	393.59-	600.00
401 COMMUNICATIONS	614.37	4,962.07	3,150.00	1,812.07	4,200.00
402 RENTALS	177.27	781.41	500.00	281.41	500.00
403 UTILITIES	33.67	180.66	561.00	380.34-	750.00
406 OUTSIDE SERVICES	3,985.68	8,699.18	11,250.00	2,550.82-	15,000.00
408 ADVERTISING & PUBLICITY	907.30	7,885.12	12,500.00	4,614.88-	12,500.00
410 DATA PROCESSING	640.20	2,764.70	5,850.00	3,085.30-	7,800.00
414 REIMBURSEMENTS TO OTHER A	0.00	105.00	0.00	105.00	0.00
501 EQUIPMENT	4,887.51	33,939.30	36,350.00	2,410.70-	36,350.00
ORGANIZATION TOTAL	79,395.41	705,046.64	727,536.00	22,489.36-	909,452.00
2330 CONSERVATION EDUCATION CENTER					
101 PERSONAL SERVICES	18,754.85	197,201.13	199,177.00	1,975.87-	239,013.00
202 PERSONAL TRAVEL	474.28	5,861.47	2,850.00	3,011.47	4,000.00
203 STATE VEHICLE OPERATION	235.51	2,663.57	1,876.00	787.57	2,500.00
204 STATE VEHICLE DEPRECIATIO	340.00	3,605.00	4,275.00	670.00-	5,700.00
301 OFFICE SUPPLIES	16.00	1,552.84	1,876.00	323.16-	2,500.00
302 FACILITY MAINTENANCE SUPP	1,238.25	11,901.82	11,250.00	651.82	15,000.00
303 EQUIPMENT MAINTENANCE SUP	391.13	6,899.93	6,750.00	149.93	9,000.00
307 AG.,CONSERVATION & HORT S	0.00	220.00	500.00	280.00-	500.00
308 OTHER SUPPLIES	160.01	5,577.03	1,125.00	4,452.03	1,500.00
309 PRINTING & BINDING	0.00	1,484.10	751.00	733.10	1,000.00
312 UNIFORMS & RELATED ITEMS	0.00	2,086.50	2,000.00	86.50	2,000.00
401 COMMUNICATIONS	474.19	5,283.10	3,749.00	1,534.10	5,000.00
403 UTILITIES	36.00	19,354.20	19,499.00	144.80-	26,000.00
406 OUTSIDE SERVICES	766.38	18,746.98	12,500.00	6,246.98	20,000.00
501 EQUIPMENT	450.05	3,608.08	3,000.00	608.08	3,000.00
ORGANIZATION TOTAL	23,336.65	286,045.75	271,178.00	14,867.75	336,713.00
2331 AQUATIC EDUCATION					
101 PERSONAL SERVICES	3,019.06	28,632.73	31,934.00	3,301.27-	38,322.00
202 PERSONAL TRAVEL	0.00	1,464.60	1,724.00	259.40-	2,300.00
203 STATE VEHICLE OPERATION	78.09	506.69	1,499.00	992.31-	2,000.00
204 STATE VEHICLE DEPRECIATIO	205.00	1,845.00	1,499.00	346.00	2,000.00
302 FACILITY MAINTENANCE SUPP	0.00	1,430.40	5,999.00	4,568.60-	8,000.00
308 OTHER SUPPLIES	589.72	15,699.99	8,249.00	7,450.99	11,000.00
309 PRINTING & BINDING	5,128.70	16,067.60	20,212.00	4,144.40-	26,950.00
312 UNIFORMS & RELATED ITEMS	0.00	229.63	187.00	42.63	250.00
405 PROF & SCIENTIFIC SERVICE	0.00	33,197.50	58,800.00	25,602.50-	58,800.00
ORGANIZATION TOTAL	9,020.57	99,074.14	130,103.00	31,028.86-	149,622.00
2340 ENERGY INFORMATION					

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
309 PRINTING & BINDING	29.20	2,486.35	2,250.00	236.35	4,500.00
405 PROF & SCIENTIFIC SERVICE	150.00	150.00	7,500.00	7,350.00-	15,000.00
410 DATA PROCESSING	706.81	2,967.11	3,451.00	483.89-	4,600.00
414 REIMBURSEMENTS TO OTHER A	0.00	30.00	0.00	30.00	0.00
501 EQUIPMENT	4,738.91	5,545.42	900.00	4,645.42	1,200.00
ORGANIZATION TOTAL	27,852.31	258,219.10	289,187.00	30,967.90-	366,633.00
2430 GROUNDWATER PLANNING					
202 PERSONAL TRAVEL	500.37	848.43	2,000.00	1,151.57-	3,000.00
308 OTHER SUPPLIES	10.40	58.47	0.00	58.47	0.00
501 EQUIPMENT	200.00-	5,729.26	12,500.00	6,770.74-	12,500.00
ORGANIZATION TOTAL	310.77	6,636.16	14,500.00	7,863.84-	15,500.00
2440 GEOGRAPHIC INFORMATION SYSTEM					
501 EQUIPMENT	7,003.16	7,123.47	0.00	7,123.47	0.00
ORGANIZATION TOTAL	7,003.16	7,123.47	0.00	7,123.47	0.00
2400 PLANNING BUREAU					
101 PERSONAL SERVICES	21,966.59	236,522.30	267,211.00	30,688.70-	330,833.00
202 PERSONAL TRAVEL	761.17	10,883.97	9,875.00	1,008.97	13,500.00
301 OFFICE SUPPLIES	0.00	7.53	0.00	7.53	0.00
308 OTHER SUPPLIES	10.40	533.32	0.00	533.32	0.00
309 PRINTING & BINDING	29.20	2,486.35	2,250.00	236.35	4,500.00
405 PROF & SCIENTIFIC SERVICE	150.00	150.00	7,500.00	7,350.00-	15,000.00
410 DATA PROCESSING	706.81	2,967.11	3,451.00	483.89-	4,600.00
414 REIMBURSEMENTS TO OTHER A	0.00	30.00	0.00	30.00	0.00
501 EQUIPMENT	11,542.07	18,398.15	13,400.00	4,998.15	13,700.00
BUREAU TOTAL	35,166.24	271,978.73	303,687.00	31,708.27-	382,133.00
2800 REAP COORDINATION					
101 PERSONAL SERVICES	3,724.33	31,039.99	0.00	31,039.99	0.00
202 PERSONAL TRAVEL	2,713.75	3,644.46	0.00	3,644.46	0.00
301 OFFICE SUPPLIES	0.00	56.30	0.00	56.30	0.00
308 OTHER SUPPLIES	956.69	2,360.10	0.00	2,360.10	0.00
309 PRINTING & BINDING	2,846.10	9,588.10	0.00	9,588.10	0.00
402 RENTALS	250.00	300.00	0.00	300.00	0.00
501 EQUIPMENT	0.00	5,042.11	0.00	5,042.11	0.00
ORGANIZATION TOTAL	10,490.87	52,031.06	0.00	52,031.06	0.00

SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
2800 REAP COORDINATION					
101 PERSONAL SERVICES	3,724.33	31,039.99	0.00	31,039.99	0.00
202 PERSONAL TRAVEL	2,713.75	3,644.46	0.00	3,644.46	0.00
301 OFFICE SUPPLIES	0.00	56.30	0.00	56.30	0.00
308 OTHER SUPPLIES	956.69	2,360.10	0.00	2,360.10	0.00
309 PRINTING & BINDING	2,846.10	9,588.10	0.00	9,588.10	0.00
402 RENTALS	250.00	300.00	0.00	300.00	0.00
501 EQUIPMENT	0.00	5,042.11	0.00	5,042.11	0.00
BUREAU TOTAL	10,490.87	52,031.06	0.00	52,031.06	0.00
2900 DIVISION MANAGEMENT					
101 PERSONAL SERVICES	5,434.74	54,083.15	53,734.00	349.15	66,527.00
202 PERSONAL TRAVEL	0.00	199.38	1,499.00	1,299.62-	2,000.00
309 PRINTING & BINDING	0.00	470.30	0.00	470.30	0.00
410 DATA PROCESSING	108.36	461.49	900.00	438.51-	1,200.00
414 REIMBURSEMENTS TO OTHER A	0.00	2,176.61	5,000.00	2,823.39-	5,000.00
ORGANIZATION TOTAL	5,543.10	57,390.93	61,133.00	3,742.07-	74,727.00
2900 DIVISION MANGEMENT					
101 PERSONAL SERVICES	5,434.74	54,083.15	53,734.00	349.15	66,527.00
202 PERSONAL TRAVEL	0.00	199.38	1,499.00	1,299.62-	2,000.00
309 PRINTING & BINDING	0.00	470.30	0.00	470.30	0.00
410 DATA PROCESSING	108.36	461.49	900.00	438.51-	1,200.00
414 REIMBURSEMENTS TO OTHER A	0.00	2,176.61	5,000.00	2,823.39-	5,000.00
BUREAU TOTAL	5,543.10	57,390.93	61,133.00	3,742.07-	74,727.00
2000 COORDINATION AND INFORMATION					
101 PERSONAL SERVICES	112,649.10	1,186,146.03	1,214,116.00	27,969.97-	1,481,952.00
202 PERSONAL TRAVEL	5,053.35	36,864.15	33,898.00	2,966.15	45,800.00
203 STATE VEHICLE OPERATION	1,407.26	7,686.44	8,198.00	511.56-	10,931.00
204 STATE VEHICLE DEPRECIATIO	1,260.00	11,955.00	13,275.00	1,320.00-	17,700.00
301 OFFICE SUPPLIES	135.00	63,760.17	52,875.00	10,885.17	70,500.00
302 FACILITY MAINTENANCE SUPP	1,273.25	14,121.05	18,249.00	4,127.95-	24,000.00
303 EQUIPMENT MAINTENANCE SUP	516.58	9,483.95	9,000.00	483.95	12,000.00
307 AG.,CONSERVATION & HORT S	0.00	220.00	500.00	280.00-	500.00
308 OTHER SUPPLIES	6,703.33	56,820.32	21,575.00	35,245.32	28,700.00
309 PRINTING & BINDING	44,419.87	284,706.46	285,731.00	1,024.54-	373,950.00
312 UNIFORMS & RELATED ITEMS	0.00	2,372.54	2,637.00	264.46-	2,850.00
401 COMMUNICATIONS	1,088.56	10,245.17	6,899.00	3,346.17	9,200.00

SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
402 RENTALS	427.27	1,081.41	500.00	581.41	500.00
403 UTILITIES	69.67	19,534.86	20,060.00	525.14-	26,750.00
405 PROF & SCIENTIFIC SERVICE	150.00	41,467.50	91,420.00	49,952.50-	101,920.00
406 OUTSIDE SERVICES	4,837.56	38,866.16	36,250.00	2,616.16	60,000.00
408 ADVERTISING & PUBLICITY	907.30	7,885.12	12,500.00	4,614.88-	12,500.00
410 DATA PROCESSING	2,667.53	9,264.25	14,101.00	4,836.75-	19,600.00
414 REIMBURSEMENTS TO OTHER A	0.00	2,311.61	5,000.00	2,688.39-	5,000.00
501 EQUIPMENT	17,435.68	73,810.02	67,850.00	5,960.02	68,150.00
DIVISION TOTAL	201,001.31	1,878,602.21	1,914,634.00	36,031.79-	2,372,503.00

ADMINISTRATION SERVICES DIVISION

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IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
3110 BUDGET					
101 PERSONAL SERVICES	20,892.87	192,908.99	219,010.00	26,101.01-	271,155.00
202 PERSONAL TRAVEL	0.00	2,963.68	2,000.00	963.68	2,250.00
301 OFFICE SUPPLIES	0.00	59.49	140.00	80.51-	140.00
303 EQUIPMENT MAINTENANCE SUP	0.00	1,687.00	390.00	1,297.00	390.00
308 OTHER SUPPLIES	0.00	287.81	1,000.00	712.19-	1,000.00
309 PRINTING & BINDING	25.10	847.30	833.00	14.30	1,000.00
406 OUTSIDE SERVICES	15.00	1,011.00	100.00	911.00	100.00
410 DATA PROCESSING	691.92	2,933.82	1,500.00	1,433.82	2,500.00
501 EQUIPMENT	0.00	205.51	2,000.00	1,794.49-	2,835.00
ORGANIZATION TOTAL	21,624.89	202,904.60	226,973.00	24,068.40-	281,370.00
3120 STATE REVOLVING FUND					
101 PERSONAL SERVICES	0.00	765.00	23,143.00	22,378.00-	28,654.00
ORGANIZATION TOTAL	0.00	765.00	23,143.00	22,378.00-	28,654.00
3130 CONSTRUCTION GRANTS					
101 PERSONAL SERVICES	2,264.41	49,073.34	23,143.00	25,930.34	28,654.00
202 PERSONAL TRAVEL	0.00	89.09	200.00	110.91-	250.00
301 OFFICE SUPPLIES	0.00	315.00	10.00	305.00	10.00
309 PRINTING & BINDING	16.60	105.00	400.00	295.00-	500.00
406 OUTSIDE SERVICES	0.00	35.25	50.00	14.75-	50.00
501 EQUIPMENT	0.00	81.79	0.00	81.79	0.00
ORGANIZATION TOTAL	2,281.01	49,699.47	23,803.00	25,896.47	29,464.00
3100 BUDGET AND GRANTS BUREAU					
101 PERSONAL SERVICES	23,157.28	242,747.33	265,296.00	22,548.67-	328,463.00
202 PERSONAL TRAVEL	0.00	3,052.77	2,200.00	852.77	2,500.00
301 OFFICE SUPPLIES	0.00	374.49	150.00	224.49	150.00
303 EQUIPMENT MAINTENANCE SUP	0.00	1,687.00	390.00	1,297.00	390.00
308 OTHER SUPPLIES	0.00	287.81	1,000.00	712.19-	1,000.00
309 PRINTING & BINDING	41.70	952.30	1,233.00	280.70-	1,500.00
406 OUTSIDE SERVICES	15.00	1,046.25	150.00	896.25	150.00
410 DATA PROCESSING	691.92	2,933.82	1,500.00	1,433.82	2,500.00
501 EQUIPMENT	0.00	287.30	2,000.00	1,712.70-	2,835.00
BUREAU TOTAL	23,905.90	253,369.07	273,919.00	20,549.93-	339,488.00
3300 FINANCE BUREAU					

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
101 PERSONAL SERVICES	42,402.10	419,580.40	410,160.00	9,420.40	508,259.00
202 PERSONAL TRAVEL	0.00	511.82	2,250.00	1,738.18-	3,000.00
301 OFFICE SUPPLIES	45.39	3,944.17	2,700.00	1,244.17	3,500.00
303 EQUIPMENT MAINTENANCE SUP	80.00	1,228.03	1,200.00	28.03	1,500.00
308 OTHER SUPPLIES	0.00	175.45	1,900.00	1,724.55-	2,500.00
309 PRINTING & BINDING	536.85	3,445.65	5,200.00	1,754.35-	5,500.00
406 OUTSIDE SERVICES	34.98	1,244.43	1,900.00	655.57-	1,900.00
410 DATA PROCESSING	3,316.32	13,375.29	12,000.00	1,375.29	18,000.00
412 AUDITOR OF STATE REIMBURS	0.00	75,495.00	100,000.00	24,505.00-	112,000.00
501 EQUIPMENT	0.00	19,899.66	18,120.00	1,779.66	18,120.00
ORGANIZATION TOTAL	46,415.64	538,899.90	555,430.00	16,530.10-	674,279.00
3300 FINANCE BUREAU					
101 PERSONAL SERVICES	42,402.10	419,580.40	410,160.00	9,420.40	508,259.00
202 PERSONAL TRAVEL	0.00	511.82	2,250.00	1,738.18-	3,000.00
301 OFFICE SUPPLIES	45.39	3,944.17	2,700.00	1,244.17	3,500.00
303 EQUIPMENT MAINTENANCE SUP	80.00	1,228.03	1,200.00	28.03	1,500.00
308 OTHER SUPPLIES	0.00	175.45	1,900.00	1,724.55-	2,500.00
309 PRINTING & BINDING	536.85	3,445.65	5,200.00	1,754.35-	5,500.00
406 OUTSIDE SERVICES	34.98	1,244.43	1,900.00	655.57-	1,900.00
410 DATA PROCESSING	3,316.32	13,375.29	12,000.00	1,375.29	18,000.00
412 AUDITOR OF STATE REIMBURS	0.00	75,495.00	100,000.00	24,505.00-	112,000.00
501 EQUIPMENT	0.00	19,899.66	18,120.00	1,779.66	18,120.00
BUREAU TOTAL	46,415.64	538,899.90	555,430.00	16,530.10-	674,279.00
3400 ADMINISTRATIVE SUPPORT BUREAU					
101 PERSONAL SERVICES	76,861.81	800,524.87	911,407.00	110,882.13-	1,050,246.00
202 PERSONAL TRAVEL	70.00	530.42	1,250.00	719.58-	1,500.00
203 STATE VEHICLE OPERATION	1,470.52	15,015.91	20,840.00	5,824.09-	25,000.00
204 STATE VEHICLE DEPRECIATIO	2,290.00	23,065.00	25,000.00	1,935.00-	30,000.00
301 OFFICE SUPPLIES	39,091.77	368,198.18	283,600.00	84,598.18	330,000.00
302 FACILITY MAINTENANCE SUPP	0.00	89.09	1,000.00	910.91-	1,200.00
303 EQUIPMENT MAINTENANCE SUP	1,179.90	16,768.24	29,045.00	12,276.76-	36,000.00
308 OTHER SUPPLIES	177.21	3,841.60	2,250.00	1,591.60	3,000.00
309 PRINTING & BINDING	1,432.50	7,472.25	6,134.00	1,338.25	9,200.00
401 COMMUNICATIONS	1,764.45	132,218.66	162,055.00	29,836.34-	216,300.00
402 RENTALS	109.50	328.50	375.00	46.50-	500.00
406 OUTSIDE SERVICES	655.99	5,082.27	22,905.00	17,822.73-	29,000.00
410 DATA PROCESSING	3,455.37	14,449.15	17,600.00	3,150.85-	26,400.00
414 REIMBURSEMENTS TO OTHER A	0.00	1,465.00	1,700.00	235.00-	2,000.00
501 EQUIPMENT	2,046.85	23,909.75	39,920.00	16,010.25-	46,000.00
ORGANIZATION TOTAL	130,605.87	1,412,958.89	1,525,081.00	112,122.11-	1,806,346.00

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
3400 ADMINISTRATIVE SUPPORT BUREAU					
101 PERSONAL SERVICES	76,861.81	800,524.87	911,407.00	110,882.13-	1,050,246.00
202 PERSONAL TRAVEL	70.00	530.42	1,250.00	719.58-	1,500.00
203 STATE VEHICLE OPERATION	1,470.52	15,015.91	20,840.00	5,824.09-	25,000.00
204 STATE VEHICLE DEPRECIATIO	2,290.00	23,065.00	25,000.00	1,935.00-	30,000.00
301 OFFICE SUPPLIES	39,091.77	368,198.18	283,600.00	84,598.18	330,000.00
302 FACILITY MAINTENANCE SUPP	0.00	89.09	1,000.00	910.91-	1,200.00
303 EQUIPMENT MAINTENANCE SUP	1,179.90	16,768.24	29,045.00	12,276.76-	36,000.00
308 OTHER SUPPLIES	177.21	3,841.60	2,250.00	1,591.60	3,000.00
309 PRINTING & BINDING	1,432.50	7,472.25	6,134.00	1,338.25	9,200.00
401 COMMUNICATIONS	1,764.45	132,218.66	162,055.00	29,836.34-	216,300.00
402 RENTALS	109.50	328.50	375.00	46.50-	500.00
406 OUTSIDE SERVICES	655.99	5,082.27	22,905.00	17,822.73-	29,000.00
410 DATA PROCESSING	3,455.37	14,449.15	17,600.00	3,150.85-	26,400.00
414 REIMBURSEMENTS TO OTHER A	0.00	1,465.00	1,700.00	235.00-	2,000.00
501 EQUIPMENT	2,046.85	23,909.75	39,920.00	16,010.25-	46,000.00
BUREAU TOTAL	130,605.87	1,412,958.89	1,525,081.00	112,122.11-	1,806,346.00
3500 DATA PROCESSING BUREAU					
101 PERSONAL SERVICES	37,681.95	414,621.95	516,294.00	101,672.05-	619,553.00
202 PERSONAL TRAVEL	0.00	1,622.27	3,333.00	1,710.73-	4,000.00
301 OFFICE SUPPLIES	0.00	1,530.88	0.00	1,530.88	0.00
303 EQUIPMENT MAINTENANCE SUP	2,854.98	33,987.11	20,000.00	13,987.11	24,000.00
308 OTHER SUPPLIES	150.00	1,736.95	166.00	1,570.95	200.00
309 PRINTING & BINDING	0.00	252.95	166.00	86.95	200.00
401 COMMUNICATIONS	1,064.27	8,109.84	4,583.00	3,526.84	5,500.00
406 OUTSIDE SERVICES	1,343.02	10,759.42	2,833.00	7,926.42	3,400.00
410 DATA PROCESSING	22,719.39-	24,679.13	43,333.00	18,653.87-	52,000.00
501 EQUIPMENT	1,376.93	35,876.86	26,162.00	9,714.86	31,395.00
ORGANIZATION TOTAL	21,751.76	533,177.36	616,870.00	83,692.64-	740,248.00
3500 DATA PROCESSING BUREAU					
101 PERSONAL SERVICES	37,681.95	414,621.95	516,294.00	101,672.05-	619,553.00
202 PERSONAL TRAVEL	0.00	1,622.27	3,333.00	1,710.73-	4,000.00
301 OFFICE SUPPLIES	0.00	1,530.88	0.00	1,530.88	0.00
303 EQUIPMENT MAINTENANCE SUP	2,854.98	33,987.11	20,000.00	13,987.11	24,000.00
308 OTHER SUPPLIES	150.00	1,736.95	166.00	1,570.95	200.00
309 PRINTING & BINDING	0.00	252.95	166.00	86.95	200.00
401 COMMUNICATIONS	1,064.27	8,109.84	4,583.00	3,526.84	5,500.00
406 OUTSIDE SERVICES	1,343.02	10,759.42	2,833.00	7,926.42	3,400.00
410 DATA PROCESSING	22,719.39-	24,679.13	43,333.00	18,653.87-	52,000.00

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
501 EQUIPMENT	1,376.93	35,876.86	26,162.00	9,714.86	31,395.00
BUREAU TOTAL	21,751.76	533,177.36	616,870.00	83,692.64-	740,248.00
3600 LICENSING BUREAU					
101 PERSONAL SERVICES	15,273.90	160,684.09	166,766.00	6,081.91-	200,120.00
202 PERSONAL TRAVEL	10.35	1,063.18	525.00	538.18	700.00
301 OFFICE SUPPLIES	8.80	1,220.42	3,000.00	1,779.58-	3,600.00
309 PRINTING & BINDING	0.00	300.65	1,800.00	1,499.35-	1,875.00
406 OUTSIDE SERVICES	16.81	1,451.59	0.00	1,451.59	0.00
410 DATA PROCESSING	1,243.10	5,009.63	11,000.00	5,990.37-	13,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	305.00	650.00	345.00-	650.00
ORGANIZATION TOTAL	16,552.96	170,034.56	183,741.00	13,706.44-	219,945.00
3600 LICENSING BUREAU					
101 PERSONAL SERVICES	15,273.90	160,684.09	166,766.00	6,081.91-	200,120.00
202 PERSONAL TRAVEL	10.35	1,063.18	525.00	538.18	700.00
301 OFFICE SUPPLIES	8.80	1,220.42	3,000.00	1,779.58-	3,600.00
309 PRINTING & BINDING	0.00	300.65	1,800.00	1,499.35-	1,875.00
406 OUTSIDE SERVICES	16.81	1,451.59	0.00	1,451.59	0.00
410 DATA PROCESSING	1,243.10	5,009.63	11,000.00	5,990.37-	13,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	305.00	650.00	345.00-	650.00
BUREAU TOTAL	16,552.96	170,034.56	183,741.00	13,706.44-	219,945.00
3700 CONSTRUCTION SERVICES BUREAU					
101 PERSONAL SERVICES	61,743.82	612,950.88	635,650.00	22,699.12-	782,820.00
202 PERSONAL TRAVEL	1,702.96	19,077.11	21,800.00	2,722.89-	30,500.00
203 STATE VEHICLE OPERATION	740.55	19,372.24	18,800.00	572.24	26,000.00
204 STATE VEHICLE DEPRECIATIO	2,315.00	23,150.00	20,900.00	2,250.00	28,000.00
301 OFFICE SUPPLIES	2.40	191.78	1,000.00	808.22-	1,200.00
302 FACILITY MAINTENANCE SUPP	0.00	229.76	500.00	270.24-	500.00
303 EQUIPMENT MAINTENANCE SUP	96.75	357.69	1,500.00	1,142.31-	1,500.00
308 OTHER SUPPLIES	263.62	4,017.10	4,400.00	382.90-	5,000.00
309 PRINTING & BINDING	2,022.75	6,390.35	5,300.00	1,090.35	7,000.00
312 UNIFORMS & RELATED ITEMS	0.00	387.21	2,800.00	2,412.79-	3,000.00
401 COMMUNICATIONS	0.00	4,332.85	70.00	4,262.85	100.00
406 OUTSIDE SERVICES	0.00	56.00	500.00	444.00-	500.00
410 DATA PROCESSING	475.25	1,556.43	3,400.00	1,843.57-	4,000.00
501 EQUIPMENT	0.00	2,193.04	25,000.00	22,806.96-	35,000.00
ORGANIZATION TOTAL	69,363.10	694,262.44	741,620.00	47,357.56-	925,120.00
3700 CONSTRUCTION SERVICES BUREAU					

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
101 PERSONAL SERVICES	61,743.82	612,950.88	635,650.00	22,699.12-	782,820.00
202 PERSONAL TRAVEL	1,702.96	19,077.11	21,800.00	2,722.89-	30,500.00
203 STATE VEHICLE OPERATION	740.55	19,372.24	18,800.00	572.24	26,000.00
204 STATE VEHICLE DEPRECIATIO	2,315.00	23,150.00	20,900.00	2,250.00	28,000.00
301 OFFICE SUPPLIES	2.40	191.78	1,000.00	808.22-	1,200.00
302 FACILITY MAINTENANCE SUPP	0.00	229.76	500.00	270.24-	500.00
303 EQUIPMENT MAINTENANCE SUP	96.75	357.69	1,500.00	1,142.31-	1,500.00
308 OTHER SUPPLIES	263.62	4,017.10	4,400.00	382.90-	5,000.00
309 PRINTING & BINDING	2,022.75	6,390.35	5,300.00	1,090.35	7,000.00
312 UNIFORMS & RELATED ITEMS	0.00	387.21	2,800.00	2,412.79-	3,000.00
401 COMMUNICATIONS	0.00	4,332.85	70.00	4,262.85	100.00
406 OUTSIDE SERVICES	0.00	56.00	500.00	444.00-	500.00
410 DATA PROCESSING	475.25	1,556.43	3,400.00	1,843.57-	4,000.00
501 EQUIPMENT	0.00	2,193.04	25,000.00	22,806.96-	35,000.00
BUREAU TOTAL	69,363.10	694,262.44	741,620.00	47,357.56-	925,120.00
3800 LAND ACQUISITION/MGMT BUREAU					
101 PERSONAL SERVICES	24,546.50	254,428.21	251,495.00	2,933.21	311,370.00
202 PERSONAL TRAVEL	436.20	9,183.93	13,500.00	4,316.07-	18,000.00
203 STATE VEHICLE OPERATION	463.48	4,727.80	6,250.00	1,522.20-	7,500.00
204 STATE VEHICLE DEPRECIATIO	750.00	7,510.00	8,750.00	1,240.00-	10,500.00
301 OFFICE SUPPLIES	0.00	284.76	720.00	435.24-	1,000.00
308 OTHER SUPPLIES	28.74	772.16	900.00	127.84-	1,200.00
309 PRINTING & BINDING	39.00	311.45	1,350.00	1,038.55-	1,800.00
312 UNIFORMS & RELATED ITEMS	0.00	921.25	1,200.00	278.75-	1,200.00
406 OUTSIDE SERVICES	124.00	358.00	1,000.00	642.00-	1,000.00
410 DATA PROCESSING	108.87	422.65	1,600.00	1,177.35-	2,400.00
414 REIMBURSEMENTS TO OTHER A	0.00	240.00	720.00	480.00-	1,000.00
501 EQUIPMENT	0.00	617.41	6,000.00	5,382.59-	6,000.00
701 LICENSES	0.00	2.50	100.00	97.50-	150.00
ORGANIZATION TOTAL	26,496.79	279,780.12	293,585.00	13,804.88-	363,120.00
3800 LAND ACQUISITION/MGMT BUREAU					
101 PERSONAL SERVICES	24,546.50	254,428.21	251,495.00	2,933.21	311,370.00
202 PERSONAL TRAVEL	436.20	9,183.93	13,500.00	4,316.07-	18,000.00
203 STATE VEHICLE OPERATION	463.48	4,727.80	6,250.00	1,522.20-	7,500.00
204 STATE VEHICLE DEPRECIATIO	750.00	7,510.00	8,750.00	1,240.00-	10,500.00
301 OFFICE SUPPLIES	0.00	284.76	720.00	435.24-	1,000.00
308 OTHER SUPPLIES	28.74	772.16	900.00	127.84-	1,200.00
309 PRINTING & BINDING	39.00	311.45	1,350.00	1,038.55-	1,800.00
312 UNIFORMS & RELATED ITEMS	0.00	921.25	1,200.00	278.75-	1,200.00
406 OUTSIDE SERVICES	124.00	358.00	1,000.00	642.00-	1,000.00
410 DATA PROCESSING	108.87	422.65	1,600.00	1,177.35-	2,400.00

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
414 REIMBURSEMENTS TO OTHER A	0.00	240.00	720.00	480.00-	1,000.00
501 EQUIPMENT	0.00	617.41	6,000.00	5,382.59-	6,000.00
701 LICENSES	0.00	2.50	100.00	97.50-	150.00
BUREAU TOTAL	26,496.79	279,780.12	293,585.00	13,804.88-	363,120.00
3900 ADMINISTRATIVE SERVCS DIV MGMT					
101 PERSONAL SERVICES	8,168.53	58,244.44	58,207.00	37.44	69,303.00
202 PERSONAL TRAVEL	0.00	296.10	900.00	603.90-	1,200.00
301 OFFICE SUPPLIES	0.00	1,611.37	500.00	1,111.37	600.00
410 DATA PROCESSING	92.75	403.86	900.00	496.14-	1,200.00
414 REIMBURSEMENTS TO OTHER A	2,452.58	8,361.40	6,000.00	2,361.40	8,000.00
501 EQUIPMENT	0.00	7,249.96	3,000.00	4,249.96	3,000.00
ORGANIZATION TOTAL	10,713.86	76,167.13	69,507.00	6,660.13	83,303.00
3900 ADMINISTRATIVE SERVCS DIV MGMT					
101 PERSONAL SERVICES	8,168.53	58,244.44	58,207.00	37.44	69,303.00
202 PERSONAL TRAVEL	0.00	296.10	900.00	603.90-	1,200.00
301 OFFICE SUPPLIES	0.00	1,611.37	500.00	1,111.37	600.00
410 DATA PROCESSING	92.75	403.86	900.00	496.14-	1,200.00
414 REIMBURSEMENTS TO OTHER A	2,452.58	8,361.40	6,000.00	2,361.40	8,000.00
501 EQUIPMENT	0.00	7,249.96	3,000.00	4,249.96	3,000.00
BUREAU TOTAL	10,713.86	76,167.13	69,507.00	6,660.13	83,303.00
3000 ADMINISTRATIVE SERVICES DIV.					
101 PERSONAL SERVICES	289,835.89	2,963,782.17	3,215,275.00	251,492.83-	3,870,134.00
202 PERSONAL TRAVEL	2,219.51	35,248.77	45,758.00	10,509.23-	61,400.00
203 STATE VEHICLE OPERATION	2,674.55	39,115.95	45,890.00	6,774.05-	58,500.00
204 STATE VEHICLE DEPRECIATIO	5,355.00	53,725.00	54,650.00	925.00-	68,500.00
301 OFFICE SUPPLIES	39,148.36	377,356.05	291,670.00	85,686.05	340,050.00
302 FACILITY MAINTENANCE SUPP	0.00	318.85	1,500.00	1,181.15-	1,700.00
303 EQUIPMENT MAINTENANCE SUP	4,211.63	54,028.07	52,135.00	1,893.07	63,390.00
308 OTHER SUPPLIES	619.57	10,831.07	10,616.00	215.07	12,900.00
309 PRINTING & BINDING	4,072.80	19,125.60	21,183.00	2,057.40-	27,075.00
312 UNIFORMS & RELATED ITEMS	0.00	1,308.46	4,000.00	2,691.54-	4,200.00
401 COMMUNICATIONS	2,828.72	144,660.93	166,708.00	22,047.07-	221,900.00
402 RENTALS	109.50	328.50	375.00	46.50-	500.00
406 OUTSIDE SERVICES	2,189.80	19,997.96	29,288.00	9,290.04-	35,950.00
410 DATA PROCESSING	13,335.81-	62,829.96	91,333.00	28,503.04-	119,500.00
412 AUDITOR OF STATE REIMBURS	0.00	75,495.00	100,000.00	24,505.00-	112,000.00
414 REIMBURSEMENTS TO OTHER A	2,452.58	10,371.40	9,070.00	1,301.40	11,650.00
501 EQUIPMENT	3,423.78	90,033.98	120,202.00	30,168.02-	142,350.00

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
701 LICENSES	0.00	2.50	100.00	97.50-	150.00
DIVISION TOTAL.	345,805.88	3,958,560.22	4,259,753.00	301,192.78-	5,151,849.00

WASTE MNGT AUTHORITY DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
9100 WASTE MGMT. AUTH. SOLID WASTE					
101 PERSONAL SERVICES	10,134.28	101,689.66	99,100.00	2,589.66	122,695.00
202 PERSONAL TRAVEL	44.28	12,665.38	10,182.00	2,483.38	12,000.00
301 OFFICE SUPPLIES	0.00	352.91	834.00	481.09-	1,000.00
308 OTHER SUPPLIES	111.25	637.12	834.00	196.88-	1,000.00
309 PRINTING & BINDING	505.50	2,401.14	1,664.00	737.14	2,000.00
406 OUTSIDE SERVICES	0.00	201.00	416.00	215.00-	500.00
410 DATA PROCESSING	296.31	1,109.92	1,874.00	764.08-	2,250.00
414 REIMBURSEMENTS TO OTHER A	0.00	54.69	100.00	45.31-	100.00
501 EQUIPMENT	0.00	6,284.31	8,000.00	1,715.69-	8,000.00
ORGANIZATION TOTAL	11,091.62	125,396.13	123,004.00	2,392.13	149,545.00
9100 WASTE MGMT. AUTH. SOLID WASTER					
101 PERSONAL SERVICES	10,134.28	101,689.66	99,100.00	2,589.66	122,695.00
202 PERSONAL TRAVEL	44.28	12,665.38	10,182.00	2,483.38	12,000.00
301 OFFICE SUPPLIES	0.00	352.91	834.00	481.09-	1,000.00
308 OTHER SUPPLIES	111.25	637.12	834.00	196.88-	1,000.00
309 PRINTING & BINDING	505.50	2,401.14	1,664.00	737.14	2,000.00
406 OUTSIDE SERVICES	0.00	201.00	416.00	215.00-	500.00
410 DATA PROCESSING	296.31	1,109.92	1,874.00	764.08-	2,250.00
414 REIMBURSEMENTS TO OTHER A	0.00	54.69	100.00	45.31-	100.00
501 EQUIPMENT	0.00	6,284.31	8,000.00	1,715.69-	8,000.00
BUREAU TOTAL	11,091.62	125,396.13	123,004.00	2,392.13	149,545.00
9200 HOUSEHOLD HAZARDOUS WASTE					
101 PERSONAL SERVICES	7,452.40	63,697.27	68,375.00	4,677.73-	84,654.00
202 PERSONAL TRAVEL	550.06	3,342.01	3,990.00	647.99-	5,000.00
301 OFFICE SUPPLIES	0.00	622.42	416.00	206.42	500.00
308 OTHER SUPPLIES	0.00	282.69	4,166.00	3,883.31-	5,000.00
309 PRINTING & BINDING	110.95	6,892.17	22,500.00	15,607.83-	25,000.00
406 OUTSIDE SERVICES	0.00	2,308.24	4,166.00	1,857.76-	5,000.00
410 DATA PROCESSING	91.69	389.87	1,250.00	860.13-	1,500.00
414 REIMBURSEMENTS TO OTHER A	0.00	7,098.44	10,000.00	2,901.56-	12,000.00
ORGANIZATION TOTAL	8,205.10	84,633.11	114,863.00	30,229.89-	138,654.00
9200 HOUSEHOLD HAZARDOUS WASTER					
101 PERSONAL SERVICES	7,452.40	63,697.27	68,375.00	4,677.73-	84,654.00
202 PERSONAL TRAVEL	550.06	3,342.01	3,990.00	647.99-	5,000.00
301 OFFICE SUPPLIES	0.00	622.42	416.00	206.42	500.00
308 OTHER SUPPLIES	0.00	282.69	4,166.00	3,883.31-	5,000.00

IOWA DEPARTMENT OF NATURAL RESOURCES
SUMMARY OF EXPENDITURES VS. YEAR-TO-DATE PLAN
AS OF 04/30/90

	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
309 PRINTING & BINDING	110.95	6,892.17	22,500.00	15,607.83-	25,000.00
406 OUTSIDE SERVICES	0.00	2,308.24	4,166.00	1,857.76-	5,000.00
410 DATA PROCESSING	91.69	389.87	1,250.00	860.13-	1,500.00
414 REIMBURSEMENTS TO OTHER A	0.00	7,098.44	10,000.00	2,901.56-	12,000.00
BUREAU TOTAL	8,205.10	84,633.11	114,863.00	30,229.89-	138,654.00
9300 WASTE MGMT LANDFILL ALTERNATIV					
101 PERSONAL SERVICES	12,940.46	121,415.57	127,182.00	5,766.43-	157,463.00
202 PERSONAL TRAVEL	350.70	1,900.10	3,272.00	1,371.90-	4,000.00
301 OFFICE SUPPLIES	0.00	8.30	747.00	738.70-	1,000.00
308 OTHER SUPPLIES	0.00	192.00	747.00	555.00-	1,000.00
309 PRINTING & BINDING	0.00	109.10	200.00	90.90-	200.00
406 OUTSIDE SERVICES	15.00	102.00	416.00	314.00-	500.00
410 DATA PROCESSING	183.43	780.04	1,874.00	1,093.96-	2,250.00
501 EQUIPMENT	0.00	406.42	0.00	406.42	0.00
ORGANIZATION TOTAL	13,489.59	124,913.53	134,438.00	9,524.47-	.166,413.00
9300 WASTE MGMT LANDFILL ALTERNATIV					
101 PERSONAL SERVICES	12,940.46	121,415.57	127,182.00	5,766.43-	157,463.00
202 PERSONAL TRAVEL	350.70	1,900.10	3,272.00	1,371.90-	4,000.00
301 OFFICE SUPPLIES	0.00	8.30	747.00	738.70-	1,000.00
308 OTHER SUPPLIES	0.00	192.00	747.00	555.00-	1,000.00
309 PRINTING & BINDING	0.00	109.10	200.00	90.90-	200.00
406 OUTSIDE SERVICES	15.00	102.00	416.00	314.00-	500.00
410 DATA PROCESSING	183.43	780.04	1,874.00	1,093.96-	2,250.00
501 EQUIPMENT	0.00	406.42	0.00	406.42	0.00
BUREAU TOTAL	13,489.59	124,913.53	134,438.00	9,524.47-	166,413.00
9400 CAPACITY ASSURANCE SUPERFUND					
101 PERSONAL SERVICES	0.00	10,282.96	7,725.00	2,557.96	9,270.00
202 PERSONAL TRAVEL	0.00	2,003.75	833.00	1,170.75	1,000.00
301 OFFICE SUPPLIES	54.54	168.24	0.00	168.24	0.00
309 PRINTING & BINDING	0.00	722.75	0.00	722.75	0.00
406 OUTSIDE SERVICES	0.00	7,864.77	0.00	7,864.77	0.00
408 ADVERTISING & PUBLICITY	0.00	610.00	0.00	610.00	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	170.21	41.00	129.21	50.00
501 EQUIPMENT	255.78	4,633.79	7,725.00	3,091.21-	9,270.00
ORGANIZATION TOTAL	310.32	26,456.47	16,324.00	10,132.47	19,590.00
9400 CAPACITY ASSURANCE SUPERFUND					

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	TOTAL EXPENDITURES 04/01/90 - 04/30/90	TOTAL EXPENDITURES FY-TO-DATE	YEAR-TO-DATE PLAN	OVER/UNDER YEAR-TO-DATE PLAN	CURRENT ANNUAL BUDGET
101 PERSONAL SERVICES	0.00	10,282.96	7,725.00	2,557.96	9,270.00
202 PERSONAL TRAVEL	0.00	2,003.75	833.00	1,170.75	1,000.00
301 OFFICE SUPPLIES	54.54	168.24	0.00	168.24	0.00
309 PRINTING & BINDING	0.00	722.75	0.00	722.75	0.00
406 OUTSIDE SERVICES	0.00	7,864.77	0.00	7,864.77	0.00
408 ADVERTISING & PUBLICITY	0.00	610.00	0.00	610.00	0.00
414 REIMBURSEMENTS TO OTHER A	0.00	170.21	41.00	129.21	50.00
501 EQUIPMENT	255.78	4,633.79	7,725.00	3,091.21-	9,270.00
BUREAU TOTAL	310.32	26,456.47	16,324.00	10,132.47	19,590.00
9500 SOLID WASTE PUBLICATIONS					
301 OFFICE SUPPLIES	0.00	3,900.00	4,020.00	120.00-	4,825.00
ORGANIZATION TOTAL	0.00	3,900.00	4,020.00	120.00-	4,825.00
9500 SOLID WASTER PUBLICATIONS					
301 OFFICE SUPPLIES	0.00	3,900.00	4,020.00	120.00-	4,825.00
BUREAU TOTAL	0.00	3,900.00	4,020.00	120.00-	4,825.00
9000 WASTE MANAGEMENT AUTHORITY					
101 PERSONAL SERVICES	30,527.14	297,085.46	302,382.00	5,296.54-	374,082.00
202 PERSONAL TRAVEL	945.04	19,911.24	18,277.00	1,634.24	22,000.00
301 OFFICE SUPPLIES	54.54	5,051.87	6,017.00	965.13-	7,325.00
308 OTHER SUPPLIES	111.25	1,111.81	5,747.00	4,635.19-	7,000.00
309 PRINTING & BINDING	616.45	10,125.16	24,364.00	14,238.84-	27,200.00
406 OUTSIDE SERVICES	15.00	10,476.01	4,998.00	5,478.01	6,000.00
408 ADVERTISING & PUBLICITY	0.00	610.00	0.00	610.00	0.00
410 DATA PROCESSING	571.43	2,279.83	4,998.00	2,718.17-	6,000.00
414 REIMBURSEMENTS TO OTHER A	0.00	7,323.34	10,141.00	2,817.66-	12,150.00
501 EQUIPMENT	255.78	11,324.52	15,725.00	4,400.48-	17,270.00
DIVISION TOTAL	33,096.63	365,299.24	392,649.00	27,349.76-	479,027.00

Mr. Kuhn gave a detailed explanation of the report and answered questions on same.

This was an informational item; no action was required.

GROUNDWATER FUND - PROJECTION AND INFORMATION

Stan Kuhn, Division Administrator, Administrative Services Division, presented the following item.

Attached for Commission review is a projection of the accounts within the Groundwater Fund for FY91, FY92 and FY93. This projection is based on the current status within each account and an initial review of legislative action by the last General Assembly.

Information regarding the authorized uses of funds within each account is included. In many cases, the DNR's role is to simply forward the appropriate amount to another State agency as mandated by law. In other cases, the funds are used, through the DNR's operations budget, to fund various cost centers within the Environmental Protection division, the Energy and Geological Resources division and the Coordination and Information division. Support costs are handled through an indirect cost rate and are reflected as part of funding sources and related expenditures for the Director's Office, and portions of the Administrative Support division, the Coordination and Information division, and the Waste Management Authority division.

This information is being presented as background material at the beginning the budgeting process for FY91, FY92 and FY93. Revenues and expenditures through the Groundwater Fund are a significant part of the DNR's budget.

GROUNDWATER PROTECTION FUND
ACCOUNT PROJECTIONS - FY 91,92,93
MAY 1990

STORAGE TANK ACCOUNT				
REVENUES	FY90 EST END BAL	FY91 EST RECEIPTS	FY92 EST RECEIPTS	FY93 EST RECEIPTS
BALANCE FORWARD	$316,000	$0	$0	$0
STORAGE TANK REGISTRATION FEE	$0	$1,000,000	$1,000,000	$1,000,000
TOTAL REVENUE	$316,000	$1,000,000	$1,000,000	$1,000,000
USES OF FUNDS				
INSURANCE FUND	$0	$770,000	$770,000	$770,000
DEPT OF HEALTH	$0	$1,000	$1,000	$1,000
STORAGE TANK PROGRAM ADMINISTRATN	$172,000	$229,000	$229,000	$229,000
STATE REMEDIAL CLEANUP EFFORTS	$144,000	$0	$0	$0
TOTAL USES	$316,000	$1,000,000	$1,000,000	$1,000,000

SOURCES OF FUNDS

$65.00 ANNUAL REGISTRATION FEE & $10.00 ONE TIME INSTALLATION FEE FOR NEW TANKS ($25.00 LATE FEE)

****

USES ACCORDING TO LEGISLATION

BEGINNING JULY 1, 1989 77% OF ALL RECEIPTS TO THIS FUND ARE TO BE DEPOSITED TO THE UNDERGROUND STORAGE TANK INSURANCE FUND PROVIDING OWNERS LOANS, INSURANCE, AND COMPENSATION FOR REMEDIAL CLEANUP. THIS FUND WAS CREATED AS A RESULT OF A VOID OF SUCH SERVICES IN THE MARKET PLACE.

THE REMAINING 23% IS TO BE ALLOCATED AS FOLLOWS:

$1,000 ANNUALLY TO THE DEPT OF HEALTH TO CARRY OUT DOH RESPONSIBILITIES

THE REMAINDER FOR ADMINISTRATION OF THE UNDERGROUND STORAGE TANK PROGRAM & FOR PROGRAMS WHICH REDUCE THE POTENTIAL FOR HARM TO THE ENVIRONMENT & PUBLIC HEALTH FROM STORAGE TANKS. CURRENTLY THE DEPT IS USING THIS PORTION OF THE FUND TO PROVIDE A 25% MATCH TO FEDERAL FUNDS RECEIVED FOR STORAGE TANK PROGRAM ADMINISTRATION. IF MORE THAN 350K IS RECEIVED IN ONE YEAR THE DIFFERENCE IS TO BE DEPOSITED TO THE INSURANCE FUND.

****

GROUNDWATER PROTECTION FUND
ACCOUNT PROJECTIONS - FY 91,92,93
MAY 1990

OIL OVERCHARGE ACCOUNT				
REVENUES	FY90 EST END BAL	FY91 EST RECEIPTS	FY92 EST RECEIPTS	FY93 EST RECEIPTS
BALANCE FORWARD	$2,953,000	$0	$0	$0
OIL OVERCHARGE APPROPRIATION	$0	$2,700,000	$1,970,000	$0
TOTAL REVENUE	$2,953,000	$2,700,000	$1,970,000	$0
USES OF FUNDS				
BIG SPRINGS STUDY	$490,000	$500,000	$500,000	$0
GENERAL GROUNDWATER ACTIVITIES	$450,000	$500,000	$500,000	$0
LANDFILL ALTERNATIVE PROGRAM	$0	$0	$0	$0
ABANDONED WELL EDUCATION PROGRAM	$200,000	$0	$0	$0
AG ENERGY MANAGEMENT PROGRAM	$1,665,000	$1,700,000	$970,000	$0
IWSWRRI APPROPRIATION	$135,000	$0	$0	$0
LEOPOLD CENTER APPROPRIATION	$13,000	$0	$0	$0
TOTAL USES	$2,953,000	$2,700,000	$1,970,000	$0

USES ACCORDING TO LEGISLATION

CONTINUE THE BIG SPRINGS DEMONSTRATION PROJECT IN CLAYTON CO. $700,000/YR FY88,89,& 90 $500,000/YR FY91,& 92

DEVELOP AND ADMINISTER A GROUNDWATER MONITORING NETWORK,COMPLETE GROUNDWATER HAZARD MAPPING OF THE STATE,DEVELOP A GEOGRAPHICAL INFORMATION SYSTEM, PREPARE A REPORT OF REQULATED & NONREGULATED GROUNDWATER CONTAMINANTS, ESTABLISH A SYSTEM FOR COLLECTING EVALUATING & DISEMINATING GROUNDWATER QUALITY DATA & INFO, DEVELOP RULES FOR GROUNDWATER PROGRAM EVALUATION,COMPLETE GROUNDWATER INVESTIGATION AND ENFORCEMENT ACTIVITIES,& DISSEMINATE INFORMATION TO THE PUBLIC REGARDING THE GROUNDWATER PROGRAM. $860,000 FY88; $650,000 FY89; $600,000 FY90 & $500,000 /Y FY91 & 92.

DEVELOP & IMPLEMENT DEMONSTRATION PROJECTS FOR LANDFILL ALTERNATIVES TO SOLID WASTE DISPOSAL, INCLUDING RECYCLING PROGRAMS $700,000 FY88 850,000 FY89 (SEE SOLID WASTE ACCOUNT FOR CONTINUATION OF THS PROGRAM)

$100,000/YR FY88, 89 & 90 TO DEPT OF AG & LAND STEWARDSHIP TO IMPLEMENT AN EDUCATION PROGRAM ON BEST MGT PRACTICES & TECHNOLOGIES FOR THE MITIGATION OF GROUNDWATER CONTAMINATION FROM AG DRAINAGE WELLS ABANDONED WELLS & SINKHOLES

$7,500,000 FROM FY 88 TO FY92 TO THE AG ENERGY MGT FUND TO BE USED TO DEVELOP NON REGULATORY PROGRAMS TO IMPLEMENT INTEGRATED FARM MGT OF FARM CHEMICAL PRG, ENERGY CONSERVATION & FARM PROFITABILITY PROGRAMS,INTERACTIVE PUBLIC & FARMER EDUCATION PROGRAMS,& APPLIED STUDIES ON BEST MGT PRACTICES & TECHNOLOGIES FOR CHEMICAL USE EFFICIENCIES & REDUCTION.

PROVIDE FUNDING TO THE IOWA STATE WATER RESOURCES INSTITUTE TO PROVIDE COMPETITIVE GRANTS TO COLLEGES & UNIVERSITIES FOR DEVELOPMENT OF RESEARCH & EDUCATION PROGRAMS REQARDING ALTERNATIVE DISPOSAL METHODS & GROUNDWATER PROTECTION. $120,000 FY88 $100,000 FY89&90.

IN FY88 ONLY; $800,000 TO LEOPOLD CENTER FOR SUSTAINABLE AGRICULTURE.
****

GROUNDWATER PROTECTION FUND
ACCOUNT PROJECTIONS - FY 91,92,93
MAY 1990

HOUSEHOLD HAZARDOUS WASTE ACCOUNT				
REVENUES	FY90 EST END BAL	FY91 EST RECEIPTS	FY92 EST RECEIPTS	FY93 EST RECEIPTS
BALANCE FORWARD	$80,000	$0	$0	$0
HOUSEHOLD HAZ WASTE PERMIT FEE	$0	$330,000	$330,000	$330,000
CLEAN FUND TRANSFERS	$0	$1,008,000	$1,008,000	$1,008,000
TOTAL REVENUE	$80,000	$1,338,000	$1,338,000	$1,338,000
USES OF FUNDS				
DEPT OF HEALTH	$0	$2,000	$2,000	$2,000
RECYCLING PROJECTS	$80,000	$0	$0	$0
HAZ MATERIALS COLLECTION SITES	$0	$504,000	$504,000	$504,000
TOXIC CLEANUP DAYS	$0	$674,000	$674,000	$674,000
HOUSEHOLD HAZ WASTE PROGRAM ADMIN	$0	$158,000	$158,000	$158,000
TOTAL USES	$80,000	$1,338,000	$1,338,000	$1,338,000

SOURCES OF FUNDS

RETAILER PERMIT FEES $25.00 ANNUAL FEE
BEGINNING JULY 1, 1990, 14% OF ALL RECEIPTS TO THE ENVIRONMENTAL PROTECTION ACCOUNT OF THE CLEAN FUND WILL BE TRANSFERRED TO THE HOUSEHOLD HAZARDOUS WASTE ACCOUNT OF THE GROUNDWATER FUND TO BE USED AS DESCRIBED BELOW.
****

USES ACCORDING TO LEGISLATION

$2,000 ANNUALLY TO THE DEPT OF HEALTH TO CARRY OUT DOH RESPONSIBILITIES

$80,000 ON A ONE TIME BASIS, NO COMPLETION DATE STATED , TO PROVIDE GRANTS TO CITY/COUNTY PROJECTS FOR RECYCLING & RECLAMATION PROJECTS

7% OF THE ENVIRONMENTAL PROTECTION ACCOUNT FUNDS DEPOSITED TO THE CLEAN FUND ARE TO BE USED TO FINANCE HOUSEHOLD HAZARDOUS WASTE COLLECTION SITES AND LOCAL GOVERNMENT EDUCATION PROGRAMS.
FUNDS REMAINING, INCLUDING AN ADDITIONAL 7% TRANSFER OF THE FUNDS DEPOSITED TO THE ENVIRONMENTAL PROTECTION ACCOUNT OF THE CLEAN FUND ARE TO BE USED TO ADMINISTER THE PROGRAM, HOLD TOXIC CLEANUP DAYS & EDUCATIONAL PROGRAMS AS WELL AS PAY FOR ADMINISTRATION OF FEE COLLECTION ACTIVITIES ACCOMPLISHED BY THE DEPT OF REVENUE & FINANCE.
****

GROUNDWATER PROTECTION FUND
ACCOUNT PROJECTIONS - FY 91,92,93
MAY 1990

AGRICULTURAL MANAGEMENT ACCOUNT				
REVENUES	FY90 EST END BAL	FY91 EST RECEIPTS	FY92 EST RECEIPTS	FY93 EST RECEIPTS
BALANCE FORWARD	$1,176,790	$0	$0	$0
FEE COLLECTION ACTIVITIES	$0	$3,000,000	$3,000,000	$3,000,000
CLEAN ACCOUNT TRANSFERS	$0	$547,000	$547,000	$547,000
TOTAL REVENUE	$1,176,790	$3,547,000	$3,547,000	$3,547,000
USES OF FUNDS				
DEPT OF PUBLIC HEALTH	$0	$9,000	$9,000	$9,000
HEALTH CENTER	$0	$270,000	$270,000	$270,000
LEOPOLD CENTER	$0	$1,047,000	$1,047,000	$1,047,000
UHL REGENTS	$0	$180,000	$180,000	$180,000
COUNTY WATER SUPPLY GRANTS ADM	$74,000	$60,000	$60,000	$60,000
COUNTY GRANTS WATER SUPPLY PROG	$523,000	$775,000	$775,000	$775,000
COUNTY GRANTS ABANDONED WELL PROG	$523,000	$818,000	$818,000	$818,000
COUNTY CONSERVATN BDS GRANTS	$25,000	$0	$0	$0
AG DRAINAGE WELLS & SINKHOLES	$0	$388,000	$388,000	$388,000
UNUSEABLE FUNDS	$31,790	$0	$0	$0
TOTAL USES	$1,176,790	$3,547,000	$3,547,000	$3,547,000

SOURCES OF FUNDS

FERTILIZER TONNAGE FEES

PESTICIDE SALES FEES 1/5 OF 1% BUT NO LESS THAN $250 NOR MORE THAN $3K OF THE GROSS ANNUAL SALES BY THE REGISTANT IN THE STATE. $50 FROM EACH FEE IS TO BE DEPOSITED TO THE PESTICIDE FUND FOR ENFORCEMENT PURPOSES AND THE THE REMAINDER TO THE AG MGT ACCT.

PESTICIDE APPLICATOR FEES $25 PER YR ($5 STATE AGENCY FEE)

PENALTIES FOR FAILURE TO PROPERLY PLUG AN ABANDONED WELL UP TO $100.00/DAY NO PENALTIES HAVE BEEN LEVIED TO DATE.

BEGINNING JULY 1, 1990, 7.6% OF ALL RECEIPTS TO THE ENVIRONMENTAL PROTECTION ACCOUNT OF THE CLEAN FUND WILL BE TRANSFERRED TO THE AG MGT ACCOUNT OF THE GROUNDWATER FUND TO BE USED AS DESCRIBED BELOW.

****

USES ACCORDING TO LEGISLATION

$9,000 ANNUALLY TO THE DEPT OF HEALTH TO CARRY OUT DOH RESPONSIBILITIES

$79,000 IN FY88 & 9% OF THE FUND AFTER THE HEALTH DEPT PAYMENT IN SUBSEQUENT YRS FOR THE ESTABLISHMENT AND OPERATION OF THE CENTER FOR HEALTH EFFECTS

13% OF THE RECEIPTS AFTER THE HEALTH DEPT PAYMENT TO PROVIDE FINANCIAL INCENTIVES PROGRAMS RELATED TO AG DRAINAGE WELLS & SINKHOLES.

OF AGRICULTURES 13% IN FY 88 $50,000 IS TO BE DIRECTED TO THE DEPT OF NATURAL RESOURCES FOR COUNTY GRANTS FOR THE DEVELOPMENT AND IMPLEMENTATION OF PROJECTS REGARDING ALTERNATIVE PRACTICES IN THE REMEDIATION OF WEEDS WITHIN HIGHWAY RIGHT OF WAYS.

35% OF THE RECEIPTS AFTER THE HEALTH DEPT PAYMENTS TO THE LEOPOLD CENTER.

6% OF THE RECEIPTS AFTER THE HEALTH DEPT PAYMENTS TO THE UNIVERSITY OF IOWA HYGIENIC LABORATORY TO BE USED TO ASSIST IN THE WELL TESTING PROGRAM.

2% OF THE RECEIPTS AFTER THE HEALTH DEPT PAYMENTS TO THE DNR TO ADMINISTER GRANTS TO COUNTIES PROGRAM.

17.5% OF THE RECEIPTS AFTER THE HEALTH DEPT PAYMENTS FOR GRANTS TO ADMINISTER A COUNTY BASED PROGRAM FOR WELL TESTING. BEGINNING JULY 1,1990 3.5% OF ENVIRONMENTAL PROTECTION ACCOUNT RECEIPTS UNDER THE CLEAN FUND WILL BE TRANSFERRED TO THE AG MGT ACCOUNT TO SUPPLEMENT THIS PROGRAM.

17.5% OF THE RECEIPTS AFTER THE HEALTH DEPT PAYMENTS FOR COUNTY FOR GRANTS TO ADMINISTER COUNTY BASED PROGRAMS FOR WELL CLOSURE. BEGINNING JULY 1,1990 4.1% OF ENVIRONMENTAL PROTECTION ACCOUNT RECEIPTS UNDER THE CLEAN FUND WILL BE TRANSFERRED TO THE AG MGT ACCOUNT TO SUPPLEMENT THIS PROGRAM.

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GROUNDWATER PROTECTION FUND
ACCOUNT PROJECTIONS - FY 91,92,93
MAY 1990

SOLID WASTE ACCOUNT				
REVENUES	FY90 EST END BAL	FY91 EST RECEIPTS	FY92 EST RECEIPTS	FY93 EST RECEIPTS
BALANCE FORWARD	$3,728,000	$0	$0	$0
SOLID WASTE FEES	$0	$4,400,000	$5,500,000	$6,600,000
TOTAL REVENUE	$3,728,000	$4,400,000	$5,500,000	$6,600,000
USES OF FUNDS				
SOLID WASTE PROGRAM ADM	$661,000	$762,000	$982,000	$1,202,000
SOLID WASTE LANDFILL CLEANUP	$207,000	$110,000	$110,000	$110,000
WASTE MGT AUTH DIV ADM	$0	$0	$0	$0
DEPT OF HEALTH	$0	$8,000	$8,000	$8,000
IOWA WASTE REDUCTION CENTER	$0	$440,000	$440,000	$440,000
LANDFILL ALTERNATIVE GRANTS	$2,600,000	$2,750,000	$3,300,000	$3,850,000
LOCAL AGENCY POST CLOSURE PLANS	$0	$330,000	$660,000	$990,000
SANITARY DISPOSAL PROJ GRANTS	$133,000	$0	$0	$0
PUBLIC WATER SUPPLY GRANTS	$127,000	$0	$0	$0
TOTAL USES	$3,728,000	$4,400,000	$5,500,000	$6,600,000

SOURCES OF FUNDS

SOLID WASTE TONNAGE FEES $.25 THROUGH FY88 $1.50 THROUGH FY89 $2.00 FY90 $2.50 FY91 $3.00/TON FY92 & $3.50/TON FY93.

****

USES ACCORDING TO LEGISLATION

OF THE FUNDS COLLECTED PRIOR TO JULY 1, 1990, THE FOLLOWING ONE TIME PROJECT ALLOCATIONS REMAIN.

1. COMPETITVE PUBLIC WATER SUPPLY GRANTS. ALL ONE TIME GRANTS HAVE BEEN AWARDED; FINAL PAYOUTS SHOULD OCCUR OVER THE NEXT 6 MONTHS

3. SANITARY DISPOSAL PROJECT GRANTS. ALL ONE TIME GRANTS HAVE BEEN AWARDED FINAL PAYOUTS SHOULD OCCUR OVER THE NEXT 6 MONTHS

FY 91 RECEIPTS AUTHORIZED FOR EXPENDITURE IN FY 91 $2.50/TON

1. $.50 TO BE ALLOCATED AS FOLLOWS

A. $.20 TO UNIV OF NORTHERN IA TO MAINTAIN IOWA WASTE REDUCTION CENTER

B. $8,000 TO DEPT OF HEALTH

D. THE REMAINING PORTION OF THE FIRST $.50 FOR ADMINISTRATION OF SOLID WASTE PROGRAMS RELATED TO SANITARY DISPOSAL PROJECTS, ABATEMENT OF THREATS TO PUBLIC HEALTH CAUSED BY LANDFILLS & ADMINISTRATION OF WASTE MGT AUTHORITY DIVISION ACTIVITIES.

2. $1.00 FOR LANDFILL ALTERNATIVE DEMONSTRATION PROJECTS

3. $.50 TO BE RETAINED BY PAYEES TO DEVELOP A FUND TO BE USED IN ACCORDANCE WITH 455B.306

EACH ADDITIONAL $.50 INCREASE IS TO BE USED AS FOLLOWS

1. FIRST $.35

A. $.25 TO LANDFILL ALTERNATIVE DEMONSTRATION PROJECTS

B. $.10 TO ADMINISTER SOLID WASTE/GROUNDWATER MONITORING PROGRAM.

2. $.15 TO LOCAL AGENCIES FOR USE AS PROVIDED BY LAW.

3. IF THE $.10 FOR ADM IS NOT USED IN THE YEAR COLLECTED IT IS TO BE REALLOCATED TO LANDFILL CLEANUP PORTION OF THE SOLID WASTE ACCT.

****

Mr. Kuhn stated that this item is provided as background information for the budget process. He gave a detailed explanation of the Groundwater Fund and noted that the Oil Overcharge money runs out in Fiscal Year 1993. Mr. Kuhn stated that the CLEAN fund transfers shown on page 4 were vetoed by the governor and this will reduce the receipts by $1,800.000. Also, on page 5, $547,000 from [illegible] the CLEAN account transfers was vetoed by the governor. Mr. Kuhn noted that the fee collections into the Agricultural Management Account have picked up significantly over previous years.

Nancylee Siebenmann commented that she is struck by the miniscule amount that goes to the Department of Health for their responsibilities; she asked what their responsibilites are that are funded by this account.

Mr. Kuhn responded that he is not familiar with their responsibilities.
He related there is some statistical data that they supply or cooperate with DNR and the university people.

Chairperson Mohr requested that staff find out the responsibilities of Department of Health under this fund.

This was an informational item; no action was required.

PUBLIC PARTICIPATION

John Stewart

John Stewart, Physicist, CWE Corporation, addressed the Commission speaking of his experiences with thermo dynamics of moist air science. He noted that he wanted to find out what item in the air (the gases or the vapors) carries the pollution. He covered a history of studies on this subject and expanded on same. Mr. Stewart stated that a scientific discussion is needed to show people like the Commission what they should legislate against.

Don Balvanz

Don Balvanz, Hardin County Supervisor, addressed the Commission stating that the county would like to have permission to create a cell in their landfill, with less restrictions, for the purpose of putting in construction debris. He explained that they are asking for a variance on the requirement of placing a layer of sand under construction debris. He noted that it is almost impossible to separate the wood from the rubble when destroying old buildings. Mr. Balvanz stated that he is asking the Commission to consider changing the rules to provide for dumping rubble containing wood into a ravine. He added that it is a tremendous cost to the county to haul it to a landfill.

John Moreland

John Moreland, Sierra Club, addressed the Comission regarding Chapters 25 & 30, Toxic Air Pollutants. He encouraged the Commission to go ahead and take these rules to public hearing rather than waiting to see what the federal government is going to do in that regard.

MONTHLY REPORTS

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The following monthly reports are enclosed with the agenda for the Commission's information.

1. Rulemaking Status Report

2. Variance Report

3. Hazardous Substance/Emergency Response Report

4. Enforcement Status Report

5. Contested Case Status Report

Members of the department will be present to expand upon these reports and answer questions.

(Reports are shown on the following 12 pages)

IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
RULEMAKING STATUS REPORT
May 1, 1990

PROPOSAL	NOTICE TO COMMISSION	NOTICE PUBLISHED	RULES REVIEW COMMITTEE	HEARING	SUMMARY OF COMMENTS & RECOMMENDATIONS TO COMMISSION	RULES ADOPTED	RULES PUBLISHED	RULE EFFECTIVE
1. Ch. 22 - Controlling Air Pollution	5/21/90	*6/13/90	*7/ /90	*7/11/90 *7/12/90	*8/ /90	*8/ /90	*9/ /90	*10/ /90
2. Ch. 23 - Asbestos Demolition and Renovation	2/19/90	3/21/90	4/12/90	4/12/90	5/21/90	*5/21/90	*6/13/90	*7/18/90
3. Ch. 23 - Open Burning/Trees and Tree Trimmings	3/19/90	4/18/90	5/09/90	5/22/90 5/23/90 5/24/90	*6/18/90	*6/18/9	*7/11/90	*8/15/90
4. Ch. 39 - Requirements for Properly Plugging Abandoned Wells	*6/18/90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*9/ /90	*10/ /90	*11/ /90
5. Ch. 40, 41 & 43 - Water Supply Surface Water Filtration	5/21/90	*6/13/90	*7/ /90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*10/ /90
6. Ch. 61 - Water Quality Standards - Human Health Criteria	5/21/90	*6/13/90	*7/ /90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*10/ /90
7. Ch. 61 - Water Body Classifications	5/21/90	*6/13/90	*7/ /90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*10/ /90
8. Ch. 63 - CBOD Limits for Industry	*6/18/90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*9/ /90	*10/ /90	*11/ /90
9. Ch. 69 & 121 - Land Application of Municipal Sludge and Other Wastes	5/21/90	*6/13/90	*7/ /90	*7/ /90	*8/ /90	*8/ /90	*10/ /90	*11/ /90
10. Ch. 100, 101 - General Requirements Relating to Solid Waste Disposal	3/19/90	4/18/90	5/09/90	5/08/90	*6/18/90	*6/18/90	*7/11/90	*8/15/90
11. Ch. 100, 102 - Solid Waste Operator Certification	4/16/90	*5/16/90	*6/ /90	*6/5-7/90 *6/11-12/90	*7/ /90	*7/ /90	*8/ /90	*9/ /90
12. Ch. 100, 104, 105 - Compost and Yard Waste	4/16/90	*5/16/90	*6/ /90	*6/5-7/90 *6/11-12/90	*7/ /90	*7/ /90	*8/ /90	*9/ /90
13. Ch. 109 - SW Fees Land Application	3/19/90	4/18/90	5/09/90	5/08/90 5/09/90 5/10/90	*6/18/90	*6/18/90	*7/11/90	*8/15/90
14. Ch. 109 - Landfill Alternative Grants	*6/18/90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*9/ /90	*10/ 90	*11/ /90
15. Ch. 118 - Removal and Disposal of PCBs from White Goods Prior to Processing	1/16/90	2/07/90	*2/12/90	3/14/90 3/15/90 3/16/90	*6/18/90	*6/18/90	*7/ /90	*8/ /90
16. Ch. 119 - Waste Oil	1/16/90	2/07/90	2/12/90	3/14/90 3/15/90 3/16/90	4/16/90	4/16/90	5/15/90	*6/20/90
17. Ch. 121 - Land Treatment of Petroleum Contaminated Soils	4/16/90	*5/16/90	*6/ /90	*6/ /90	*7/ /90	*7/ /90	*8/ /90	*9/ /90
18. Ch. 121 - Land Application of Sludge	*6/18/90	*7/ /90	*8/ /90	*8/ /90	*9/ /90	*9/ /90	*10/ /90	*11/ /90
19. Ch. 135 - LUST Cleanup	2/19/90	3/21/90	4/12/90	4/10/90 4/12/90 4/13/90	*5/21/90	*5/21/90	*6/13/90	*7/18/90
20. Ch. 209 - Grants for Solid Waste Demonstration Projects	5/21/90	*6/13/90	*7/ /90	7/ /90	*8/ /90	*8/ /90	*9/ /90	*10/ /90

*Projected

MONTHLY VARIANCE REPORT

Month: April, 1990

No.	Facility	Program	Engineer	Subject	Decision	Date
1.	Arcadian Corporation-Clinton	Air Quality		Emission Standard	Approved	04/03/90
2.	Sullivan Graphics-Marengo	Air Quality		Emission Standard	Approved	04/19/90
3.	Chester & Betty Jane Spoon-Lucas	Air Quality		Structures	Denied	04/26/90
4.	Kenneth Doudna-Appanoose County	Air Quality		Structures	Approved	04/26/90
5.	Linda Frey-Allamakee County	Air Quality		Structures	Approved	04/26/90
6.	Swea City, City of	Air Quality		Landscape Waste	Denied	04/27/90
7.	Chillicothe, City of	Wastewater Construction	IIW Associates	Site Separation	Approved	04/02/90
8.	LeGrand, City of	Wastewater Construction	Clapsaddle-Garber & Associates	Curtain Wall	Denied	04/09/90
9.	Luster Heights-Yellow River Forest-Allamakee County	Wastewater Construction	Kim Israni-Engineer, Construction Services, DNR	Detention Time-Lagoons	Approved	04/23/90
10.	Worth County	Flood Plain	County Engineer	Freeboard	Approved	04/02/90
11.	Lower Centerville Dam	Flood Plain	Howard R. Green Co.	Freeboard	Approved	04/09/90
12.	Upper Centerville Dam	Flood Plain	Howard R. Green Co.	Freeboard	Approved	04/09/90
13.	Sioux County	Flood Plain	County Engineer	Freeboard	Approved	04/23/90
14.	West Lakes Office Park Dam-Polk County	Flood Plain	Civil Engineering	Freeboard	Approved	04/23/90
15.	Sioux County	Flood Plain	County Engineer	Freeboard	Approved	04/30/90
16.	Panora Water Works	Watersupply Construction	Brice,Petrides-Donohue	Design Basis	Denied	04/16/90
17.	Atalissa, City of	Watersupply Construction	Hawkeye Engineering	Siting Criteria	Denied	04/27/90

TOPIC: Report of Hazardous Conditions CHEMICAL SPILLS

During the period MARCH 29, 1990 through APRIL 26, 1990, reports of 132 hazardous conditions were forwarded to the Central Office. Two incidents are highlighted below. A general summary and count by field office is attached. These do not include releases from underground storage tanks, which are reported separately.

Date Reported and County	Description: Material, Amount, Date of Incident, Cause, Location, Impact	Responsible Party	Response and Corrective Actions
03/29/90 POTTAWATTAMIE	A semi-transport truck was filling a diesel tank, and a loose hose coupling allowed approximately 25 gallons of diesel fuel to escape.	Bork Transport Co., P.O. Box 1778 Des Moines, Iowa 50306	Absorbent pads were used to soak up part of the spill; coal from a nearby pile was used to absorb the rest. Contaminated soil and coal was placed on the coal pile, to be burned in a local power generation facility.
04/21/90 JASPER	A tank containing anhydrous ammonia overturned on highway 6, releasing approximately 1200 gallons from a rupture in the side.	Sully Cooperative Assn., R.R.1, Box 85 Newton, Iowa 50208	Residents of three farms downwind were evacuated. The ditch was dammed on both sides of the tank to prevent contaminent migration. The highway was blocked and the tank was removed.

NUMBERS IN PARENTHESES REPRESENT REPORTS FOR THE SAME PERIOD IN FISCAL YEAR 1989

		Substance Type				Mode				
Month	Total # of Incidents	Petroleum Product	Agri. Chemical	Other Chemicals and Substances	Handling and Storage	Pipeline	Highway Incident	RR Incident	Fire	Other
April	132 (78)	67 (28)	46 (33)	19 (17)	92 (54)	2 (0)	12 (19)	5 (1)	2 (1)	19 (3)

Total # of Incidents Per Field Office This Period

01	02	03	04	05	06
19	11	18	16	36	32

REPORTS OF RELEASES FROM UNDERGROUND STORAGE TANKS

During the period of April 1, 1990 through April 30, 1990, the following number of releases from underground storage tanks were identified.

75 (34)

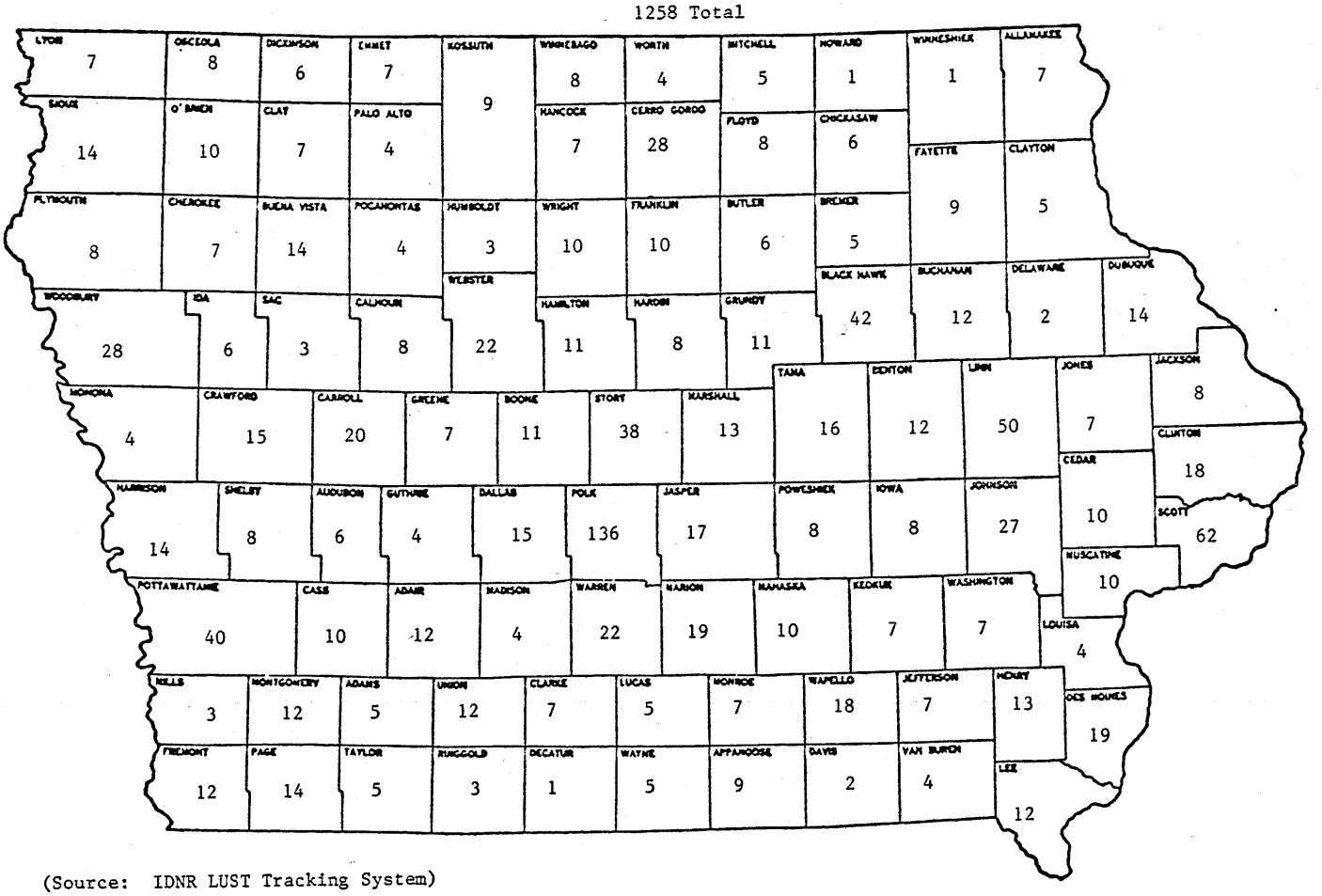
E90May-54

The number in parentheses represents the number of releases during the same period in Fiscal Year 1989.

4/16/90

REPORTED UNDERGROUND STORAGE TANK LEAKS TO DATE

1258 Total



(Source: IDNR LUST Tracking System)

Enforcement Report Update

The following new enforcement actions were taken last month:

Name, Location and Field Office Number	Program	Alleged Violation	Action	Date
Savage Sanitary Sewer District, Ft. Dodge (2)	Wastewater	MIP, Discharge Limits	Amended Order	4/02/90
Donald Ray Maasdam, Pocahontas Co. (3)	Solid Waste	Operation Without Permit	Order/Penalty	4/02/90
Harcourt Water Supply (2)	Drinking Water	MCL - Bacteria, Public Notice	Order/Penalty	4/02/90
Harlan Pruess d/b/a Pruess Elevator, Inc., Lowden (6)	Hazardous Condition	Remedial Action	Emergency Order	4/04/90
James Noeller, Cloyce Hutton, and Anthony G. and Hope Rogers, Vinton (1)	Underground Tank	Closure	Order	4/06/90
Webster County Solid Waste Commission, Ft. Dodge (2)	Solid Waste Air Quality	Cover Violations Open Burning	Order/Penalty	4/06/90
Monty Branstad, Winnebago County (2)	Air Quality	Open Burning	Amended Order	4/11/90
Milligan Bros. Transport Co., Des Moines (5)	Hazardous Condition	Remedial Action	Order/Penalty	4/11/90
Van Dusen Airport Services, Des Moines (5)	Hazardous Condition	Remedial Action	Order/Penalty	4/11/90
Des Moines, City of (5)	Hazardous Condition	Remedial Action	Order/Penalty	4/11/90
Raccoon Valley State Bank, Adel (5)	Hazardous Condition	Remedial Action	Order	4/11/90

Summary of Administrative Penalties

The following administrative penalties are due:

NAME/LOCATION	PROGRAM	AMOUNT	DUE DATE
Handi-Klasp, Inc. (Webster City)	WW/HC	1,000	8-02-88
Soo Line Railroad Company (Mason City)	HC	1,000	8-07-89
East Side Acres (Moville)	WS	200	12-26-89
Howard R. McKee	SW	1,000	2-29-90
Triggs Trailer Corporation (Belmond)	WS	215	3-26-90
Clayton King (Mason City)	AQ	380	4-01-90
George J. Heitland (Heitland Const.) (Franklin Co.)	SW	300	4-01-90
East Side Acres (Moville)	WS	600	4-01-90
Spring Grove Mobile Home Park (Burlington)	WS	200	4-12-90
Lakewood Utilities (Ft. Dodge)	WS	300	4-23-90
*James R. Morrow, d/b/a Morrow Sawmill (Wayland)	AQ/SW	200	5-20-90
Webster Co. Solid Waste Commission (Webster Co.)	SW/AQ	1,000	6-12-90
Van Dusen Airport Services (Des Moines)	HC	1,000	6-13-90
Des Moines, City of	WW	1,000	6-13-90
Stockport Water Supply	WS	260	6-13-90
Des Moines, City of	HC	1,000	6-16-90
Carl A. Burkhart d/b/a American Wrecking Co. and Merle (Toby) Buchan (Perry)	AQ/SW	1,000	6-16-90
North Liberty Water, Inc. (Kalona)	WS	245	6-20-90

The following cases have been referred to the Attorney General:

NAME/LOCATION	PROGRAM	AMOUNT	DUE DATE
OK Lounge (Marion)	WS	448	11-01-87
Richard Davis (Albia)	SW	1,000	2-28-88
McCabe's Supper Club (Burr Oak)	WS	335	12-14-88
Eagle Wrecking Co. (Pottawattamie Co.)	SW	300	5-07-89
*Twelve Mile House (Bernard)	WS	119	5-20-89
*Lawrence Payne (Ottumwa)	SW	425	6-19-89
Stan Moser (Hudson)	SW	250	6-27-89
Gilbert John Fjone (Swaledale)	SW	400	7-04-89
Richard Kleindolph (Muscatine)	SW	500	8-17-89
Robert Fisch (Manchester)	AQ	600	9-01-89
William L. Bown (Marshalltown)	SW	1,000	10-01-89
Nozey & Mildred Habhab/John F. Constable (Ft. Dodge)	AQ	1,000	10-17-89
Timber Lake Estates (Swisher)	WS	100	1-01-90
Darlo Schaap (Sioux Center)	SW	600	1-14-90
Stringtown Country Cafe (Lenox)	WS	200	2-01-90
Wellendorf Trust (Algona)	AQ/SW	460	2-12-90
Donald P. Ervin (Ft. Dodge)	SW	1,000	3-05-90
R. J. Kool, Co. (Cedar Rapids)	SW	600	3-23-90

The following administrative penalties have been appealed:

NAME/LOCATION	PROGRAM	AMOUNT
AMOCO Oil Co. (Des Moines)	UT	1,000
Iowa City Regency MHP	WW	1,000
Thomas E. Lennon (Barnum)	FP	700
Great Rivers Coop (Atavia)	HC	1,000
1st Iowa State Bank (Albia)	SW	1,000
Cloyd Foland (Decatur)	FP	800
Land O' Lakes, Inc. (Ellsworth)	WW	1,000
City of Marcus	WS	1,000
Superior-Ideal, Inc. (Oskaloosa)	WW	1,000
IBP, inc. (Columbus Junction)	WW	600
Fred's 66 (Davenport)	HC	1,000
King's Terrace Mobile Home Court (Ames)	WW	1,000
King's Terrace Mobile Home Court (Ames)	WS	315
Premium Standard Farms, Inc. (Boone Co.)	WW/AQ	700
Amoco Oil Co. (West Des Moines)	UT	1,000
Paul Kloberdanz d/b/a The Mart (Danville)	UT	1,000
Circle Hill Farms, Ltd. (Ellsworth)	SW	600
Cozy Cafe (Lucas)	WS	500
Stone City Iron & Metal Co. (Anamosa)	AQ	1,000
Craig Natvig (Cerro Gordo Co.)	SW	750
Manson Water Supply	WS	500
Ruth Ann Coe (Mason City)	AQ/SW	1,000
Joe Villinger (West Point)	SW	500
Midwest Mining, Inc. (Harrison Co.)	FP	800
Holiday Lake Water System Ltd. (Brooklyn)	WS	700
Rasch Construction, Inc. (Ft. Dodge)	AQ	1,000
American Meat Protein Corp. (Lytton)	WW	1,000
Fred Calabro (Pottawattamie Co.)	SW	1,000
Victor Carlson (Ft. Dodge)	AQ	1,000
Lytton, City of	WW	1,000
College Springs Water Supply	WS	600
Gerald Reimer (Clayton County)	SW	600
Louisa Courts (Muscatine)	WS	400
Robert E. Zezulka (Allamakee Co.)	SW	1,000
Orchard, City of	WW	1,000
Harcourt Water Supply	WS	500
Sioux City, City of	WW	1,000
Donald Ray Maasdam (Pocahontas Co.)	SW	1,000
Vern Starling (Boone Co.)	SW	1,000

*On Payment Schedule

The following administrative penalties were paid last month:

NAME/LOCATION	PROGRAM	AMOUNT
Monty Branstad (Leland)	AQ	200
Chicago, Central & Pacific RR Co. (Waterloo)	WW	1,000
Sheldahl Water Supply	WS	100
Earlville, City of	WW	250
*James R. Morrow d/b/a Morrow Sawmill (Wayland)	AQ/SW	100
*Tin Shed (Argyle)(Paid in Full)	WS	125
Kellogg, City of	WS	300
Milligan Bros. Transport (Des Moines)	HC	1,000
DeWitt Moose Lodge (DeWitt)	WS	212
Helle Transport, Inc. (Earlville)	WW	500
Leisure Lake Inn (Bernard)	WS	75
Scranton Water Supply	WS	75
Algona Country Club (Algona)	WS	75
River City Ready-Mix, Inc. (Mason City)	AQ	200
	TOTAL	$4,212

04-01-90

ADMINISTRATIVE PENALTY SUMMARY

The table below summarizes administrative penalty assessments since July, 1988. Other summaries exist for prior fiscal years. The first column of this table is a rough breakdown of the environmental program and violation types for which penalties have been assessed. The middle columns state the dollar amounts collected during the stated time periods, and the number of cases in parentheses. The last column states similar data for cases still pending as of April, 1990 (penalties appealed, delinquent or assessed but not yet due).

Violation Type	FY-89	FY-90 3rd Qtr	TOTAL FY90	PENDING
WW Discharge	$ 7,355 (07)	$ 1,000 (01)	$ 5,600 (07)	$ 4,500 (05)
WW Monitoring	4,450 (09)	---	---	4,000 (04)
WW Other	4,172 (07)	---	---	5,800 (07)
SW Permit	1,800 (03)	1,600 (02)	5,027 (07)	---
SW Open Dumping	2,958 (09)	600 (02)	2,519 (05)	13,985 (20)
Air Permit	3,500 (08)	1,700 (03)	5,650 (11)	1,000 (01)
Air Open Burning	5,134 (12)	---	1,600 (04)	7,080 (10)
WS Monitoring	15,804 (102)	3,340 (17)	7,197 (43)	3,287 (14)
WS Permit	2,100 (08)	1,200 (02)	1,200 (02)	4,900 (08)
Flood Plain	800 (01)	300 (01)	1,536 (05)	2,300 (03)
HC Notice	600 (01)	---	500 (01)	---
Water Use	---	---	3,000 (03)	---
Construction Permit	150 (01)	---	---	700 (01)
Underground Tanks	500 (01)	---	---	4,000 (04)
TOTALS	**$49,323 (169)**	**$ 9,740 (28)**	**$33,829 (88)**	**$ 51,652 (77)**

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
ATTORNEY GENERAL REFERRALS
May, 1990

Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
Aidex Corporation Council Bluffs (4)		Hazardous Waste	Release of Hazardous Substances	Referred to Attorney General	Referred EPA suit filed State intervention Motion to dismiss granted/denied Filed interlocutory appeal Decision in favor of govt.	12/16/82 02/26/87 03/05/87 02/26/88 03/11/88 04/04/89
Algona, City of (2)		Wastewater	Municipal Improvement Plan	Order	Referred	03/20/90
ASPRO, Inc. Waterloo (1)	Updated	Air Quality	Excess Emissions	Order	Referred Withdrawn due to Compliance	02/16/88 04/30/90
Bell Watcher, Inc., Poweshiek Co. (5)	Updated	Wastewater	Operational Violations	Referred to Attorney General	Referred Petition Filed Consent Decree	09/20/89 03/13/90 04/23/90
William L. Bown Marshalltown (5)		Solid Waste	Open Dumping	Order/Penalty	Referred Petition Filed	11/20/89 03/03/90
Bozarth and Bell, Inc. Davenport (6)	Updated	Solid Waste	Open Dumping	Order	Referred Default Judgment $7500 Second Lawsuit Filed Consent Decree Filed New Case Trial Set	02/20/87 06/22/87 08/07/88 08/23/88 11/01/88 06/28/90
Carolan, Don & Hanson Tire Service, Cresco (1)		Solid Waste Air Quality	Open Dumping Open Dumping	Referred to Attorney General	Referred	02/20/90
CARP vs. DNR	Updated	Wastewater	IBP Permit	Amended Permit	Suit Filed Dismissed Order Granting Reinstatement Stay Request Withdrawn	05/20/88 01/01/90 03/27/90 04/13/90
Clear Lake Sanitary District (2)	New	Wastewater	Compliance Schedule	Referred to Attorney General	Referred	04/16/90
Cerro Gordo County Area Landfill Agency (2)	New	Solid Waste	Cover Violations	Referred to	Referred	04/16/90
Chalfant, Milo, et.al. Webster City (2)		Solid Waste	Open Dumping	Order/Penalty	Referred	09/20/89
Clinton Pallet Co. Clinton (6)		Solid Waste	Open Dumping	Referred to Attorney General	Referred Suit Filed	06/21/89 11/09/89
Cooper, Kenneth/Hunter Oil Minburn (5)	Updated	Storage Tank	Spill Cleanup	Order	Cooper Referred Hunter Referred Site Assessment DNR Review	08/17/88 02/ /90 04/20/90
Davis, Richard & Sonja (5)		Solid Waste	Open Unpermitted Dumping	Referred to Attorney General	Referred Suit Filed Default Judgement Filed Motion to Deny Default Motion Overruled	06/22/88 08/11/88 04/21/89 06/14/89 10/04/89
Jimmy Dean Meat Co., Inc. (5)	New	Wastewater	Pretreatment	Referred to Attorney General	Referred	04/16/90
Dexter Co., The Fairfield (6)		Wastewater	Prohibited Discharge Effluent Limit Discharge	Referred to Attorney General	Referred	03/20/90
DeWitt Moose Lodge Dewitt (6)	Updated	Drinking Water	Monitoring/Reporting	Order/Penalty	Referred Consent Decree ($500)	02/20/90 04/27/90
Don Ervin, Webster County (2)	New	Solid Waste	Operation Without Permit	Order/Penalty	Referred	04/16/90
Fairfield, City of (6)		Wastewater	Monitoring/Reporting Discharge Limitation Operation Violation	Order	Referred	02/20/90
Giametta, Dominic d/b/a Fred's 66, Davenport (6)		Underground Tank	Remedial Action	Order/Penalty	Referred	12/11/89
Eagle Wrecking Co. Pottawattamie Co. (4)		Solid Waste	Open Dumping	Order/Penalty	Referred Bankruptcy Claim Filed	06/21/89 07/24/89
Ellsworth, City of (2)		Wastewater	Discharge Limits	Order	Referred	04/18/89
Robert Fisch Manchester (1)		Air Quality	Open Burning	Order/Penalty	Referred Motion for Summary Judgment Judgment for $600	10/24/89 12/05/89 02/27/90
Gilbert Fjone Swaledale (2)		Solid Waste	Open Dumping	Order/Penalty	Referred	10/24/89

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
ATTORNEY GENERAL REFERRALS
May, 1990

Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
Habhab, Nozey et.al., Fort Dodge, (2)	Updated	Air Quality	Open Burning	Order/Penalty	Referred Hearing Set	01/17/90 05/07/90
Humboldt Co. Landfill Commission (2)		Solid Waste	Cover Violations	Order/Penalty	Referred	11/20/89
Iben, Fred Monticello (1)	Updated	Solid Waste	Open Dumping	Order	Referred Petition Filed	11/20/89 04/20/90
Jorgenson, Harris (2)	New	Air Quality	Operation Without Permit	Referred to Attorney General	Referred	04/16/90
Kinsinger, Vernon Kalona (1)	Updated	Solid Waste Air Quality	Open Dumping Open Burning	Order/Penalty	Referred Administrative Penalty Paid Trail Set Trial Continued Consent Decree	01/24/89 02/23/89 03/27/90 03/23/90 04/23/90
Richard Kleindolph Muscatine (6)	Updated	Solid Waste	Open Dumping	Order/Penalty	Referred Petition Filed	10/24/89 04/06/90
R. J. Kool Co., Cedar Rapids (1)	New	Solid Waste	Illegal Disposal	Order/Penalty	Referred	04/16/90
Lakeshore Drive, Inc. et.al. Osceola (5)	Updated	Flood Plain	Reconstruction	Order	Referred Petition Filed Judgment vs. Lakeshore	11/20/89 02/07/90 04/09/90
Land O'Lakes, Inc. Ellsworth (2)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred Petition Filed	09/20/89 11/30/89
Larson, Daryl, D.V.M. Audubon (4)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	11/20/89
Mathern, Larry (Larry's DX) Ralph Beck; Walker Oil Co. (5)		Underground Tank	Remedial Action	Referred to AG	Referred	02/20/90
Mike McGinnis, Alfred Patten and Dennis Lewis Pottawattamie Co. (4)		Solid Waste	Open Dumping	Referred to Attorney General	Referred Suit Filed	10/24/89 11/15/89
Mercy Hospital Medical Center (5)	New	Solid Waste	Illegal Disposal	Referred to Attorney General	Referred	04/16/90
Miller Products Co. (5)	New	Wastewater	Pretreatment	Order/Penalty	Referred	04/16/90
Monfort, Inc. (5)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	12/11/89
Moser, Stan		Solid Waste	Open Dumping	Referred to Attorney General	Referred Petition Filed Trial Set Court Order	07/19/89 09/12/89 03/15/90 01/24/90
National Environmental Preservation Ass'n vs. IDNR	Updated	Solid Waste	Suit to enjoin SWA's	Issued SWA's	Suit Filed DNR Motion for More Specific Statement Amended Petition DNR Motion Dismissed	01/30/90 02/16/90 02/26/90 03/08/90 04/06/90
J.R. Nylen, Limited Sioux City (3)		Solid Waste Air Quality	Open Dumping Open Burning	Referred to Attorney General	Referred	03/20/90
Osceola, City of (5)	New	Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	04/16/90
Pruess v. IDNR	New	Hazardous Condition	DNR Defendant	Abatement Order	Suit Filed Hearing	04/24/90 04/30/90
Regional Environmental Improvement Commission in Iowa County (6)		Solid Waste	Operational Violations	Referred to Attorney General	Referred	01/17/90
River City Ready-Mix, Inc., Mason City (2)	Updated	Air Quality	Construction Without Permit	Order/Penalty	Referred Penalty Paid ($200)	03/20/90 04/18/90
Sani-Wash Corporation Clinton (6)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	08/23/89
Schaap, Darlo Sioux Center (3)		Solid Waste	Open Dumping	Order/Penalty	Referred	02/20/90
Schultz, Albert and Iowa Iron Works Ely (1)		Solid Waste	Open Dumping	Referred to Attorney General	Referred	09/20/89
Sevig, Gordon, et.al. Walford (1)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	09/20/89

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
ATTORNEY GENERAL REFERRALS
May, 1990

Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
Siouxland Quality Meat Co., Inc. Sioux City (3)		Wastewater	Discharge Limitations	Referred to Attorney General	Referred	02/20/90
Stickle Enterprises, Ltd. et.al., Cedar Rapids (6)		Air Quality	Open Burning	Referred to Attorney General	Referred Suit Filed	09/20/89 10/17/89
Stringtown Country Cafe, Lenox (4)		Drinking Water	Monitoring/Reporting-Nitrate	Order/Penalty	Referred	03/20/90
Timber Lake Estates, Swisher (6)		Drinking Water	Monitoring/Reporting	Order/Penalty	Referred	02/20/90
Touchdown Co., et. al., Webster City (2)		Underground Tank	Prohibited Discharge Failure to Report Hazardous Condition	Referred to Attorney General	Referred	06/21/89
Turner, Ken Ft. Madison (6)	Updated	Solid Waste	Open Dumping	Referred to Attorney General	Referred Petition Filed Trial Conference	06/21/89 09/13/89 05/07/90
Walterman Implement, Inc. (2)		Underground Tank	Failure to Register	Referred to Attorney General	Referred	02/20/90
Wellendorf Trust and Lamont Wellendorf, Algona (2)		Air Quality Solid Waste	Open Burning Open Dumping	Order/Penalty	Referred	03/20/90
Wiltgen Construction Co. Calmar (1)	Updated	Solid Waste	Open Dumping	Order/Penalty	Referred Consent Decree Penalty Paid ($500)	11/20/89 01/12/90 03/23/90 04/02/90
Wright County Area Landfill Authority (2)		Solid Waste	Cover Violations	Order Penalty	Referred	03/20/90
Yocum, Max Johnson (6)		Flood Plain	Prohibited Construction	Defending Referred to Attorney General	Suit Filed Referred Counter Claim Filed	12/18/84 07/12/85 10/85
					Trial Held Judgment for Department Court of Appeals Affirmed Judgment Further Review Denied Contempt Hearing Rescheduled	6/16/87 8/18/87 11/29/88 02/06/89 09/29/89

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
CONTESTED CASES
May, 1990

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
1-23-86	Oelwein Soil Service	Administrative Order	WW	Landa	Hearing continued.
6-12-86	ADM - Clinton	Administrative Order	Air	Landa	Settlement proposed. Consent order prepared.
12-03-86	City of Waukee	Administrative Order	WS	Hansen	Construction completed.
5-12-87	Iowa City Regency MHP	Administrative Order	WW	Hansen	Hearing held 11-03-87.
6-11-87	Thomas Lennon	Administrative Order	FP	Clark	Appealed to District Court.
8-10-87	Great Rivers Co-op	Administrative Order	HC	Landa	Final report approved. Settlement proposed.
1-15-88	First Iowa State Bank	Administrative Order	SW	Kennedy	Stipulation filed.
2-04-88	Beaverdale Heights, Woodsman; Westwood Hills	Administrative Order	WS	Landa	Compliance actions completed.
2-05-88	Warren County Brenton Bank	Administrative Order	UT	Landa	Phase II completed. Report submitted.
3-01-88	Cloyd Foland	Administrative Order	FP	Clark	Appealed to Supreme Court.
4-13-88	Land O'Lakes, Inc.	Administrative Order	WW	Murphy	Settlement close.
5-16-88	Marcus, City of	Administrative Order	WS	Landa	Compliance achieved/Settlement proposed.
7-01-88	Superior Ideal, Inc.	Administrative Order	WW	Hansen	Hearing continued pending settlement discussions.
7-25-88	Nishna Sanitary Service, Inc.	Permit Conditions	SW	Landa	Compliance initiated/Plans submitted/reviewed.
8-03-88	Hardin County	Permit Conditions	SW	Landa	Compliance initiated/Plans submitted/reviewed
10-03-88	IBP, Columbus Junction	Administrative Order	WW	Clark	Hearing held 4/25/90; Briefs due 5/23/90.
10-20-88	Worth Co. Co-Op Oil Northwood Cooperative Elevator Sunray Refining and Marketing Co.	Administrative Order	HC	Landa	Compliance initiated.
12-02-88	Davis Co. Board of Supervisors	Administrative Order	AQ	Landa	Hearing continued.

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
CONTESTED CASES
May, 1990

DATE	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
1-25-89	Amoco Oil Co. - Des Moines	Administrative Order	UT	Landa	Settlement proposed. Clean up progressing.
2-10-89	Northwestern States Portland Cement Company	Site Registry	HW	Landa	Settlement proposed.
2-10-89	Baier/Mansheim/Hoyer	Site Registry	HW	Landa	Hearing continued/Settlement proposed.
2-13-89	King's Terrace Mobile Home Court	Administrative Order	WW	Murphy	Negotiating before filing.
2-13-89	King's Terrace Mobile Home Court	Administrative Order	WS	Murphy	Negotiating before filing.
2-16-89	John Deere Co. - Dubuque	Site Registry	HW	Landa	Hearing continued/settlement proposed.
2-16-89	Premium Standard Farms	Administrative Order	WW/AQ	Murphy	Hearing continued.
3-14-89	Dannie R. Hoover and Bill Edwards	Flood Plain Permit Issuance	FP	Clark	Proposed decision 4/11/90; Dept. appealed.
5-01-89	Amoco Oil Company - West Des Moines	Administrative Order	UT	Landa	Compliance initiated.
6-08-89	Shaver Road Investments	Site Registry	HW	Landa	Hearing continued/Discovery initiated.
6-08-89	Hawkeye Rubber Mfg. Co.	Site Registry	HW	Landa	Hearing continued/Discovery initiated.
6-08-89	Lehigh Portland Cement Co.	Site Registry	HW	Landa	Hearing continued/Discovery initiated.
6-08-89	Jay Winders	Permit Denial	FP	Clark	Settlement proposed.
6-12-89	Amana	Site Registry	HC	Landa	Negotiating before filing.
6-19-89	Grand Mound, City of	Administrative Order	WW	Hansen	Order to be amended.
6-22-89	Chicago & Northwestern Transportation Co. Hawkeye Land Co. Blue Chip Enterprises	Administrative Order	HC	Landa	Hearing held/Briefs due.
7-11-89	Circle Hill Farms, Ltd.	Administrative Order	SW	Kennedy	Settlement pending.
7-19-89	Lehigh Portland Cement Co.	Administrative Order	HC	Landa	Settlement discussions initiated.
7-26-89	Cozy Cafe	Administrative Order	WS	Hansen	Settlement offer made.
7-26-89	Midland Brick	Administrative Order	AQ	Landa	Compliance initiated.
9-01-89	Stone City Iron & Metal	Administrative Order Permit Denial	AQ	Kennedy	Settlement pending.
9-09-89	Monsanto	Site Registry	HC	Landa	Settlement proposed.
10-12-89	Electro-Coatings, Inc.	Administrative Order	HC	Landa	Settlement proposed.
10-24-89	Farmers Cooperative Elevator Association of Sheldon	Site Registry	HC	Landa	Negotiation proceeding.
10-24-89	Consumers Cooperative Association	Site Registry	HC	Landa	Negotiation proceeding.
10-26-89	Craig Natvig	Administrative Order Flood Plain	SW	Kennedy	EPC affirmed decision.
11-01-89	Sam Levine/Morris Levine	Site Registry	HC	Landa	Negotiating before filing.
11-03-89	Bridgestone/Firestone, Inc.	Site Registry	HC	Landa	Hearing continued pending negotiations.
11-15-89	Alcoa	Site Registry	HC	Landa	Hearing continued.
11-17-89	Aten Services, Inc.	Administrative Order	SW/UT	Landa	Compliance initiated.
11-27-89	Manson, City of	Administrative Order	WS	Hansen	Negotiating before filing.

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
CONTESTED CASES
May, 1990

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
12-11-89	Leo Schachtner	Flood Plain Permit Issuance	FP	Clark	Negotiating before filing.
12-12-89	Henry Ketelsen	Administrative Order	UT	Landa	Settled.
12-21-89	Robert Coppinger and Velma Nehman	Flood Plain Permit Denial	FP	Clark	Hearing held 5/02-03/90.
1-02-90	Midwest Mining, Inc.	Administrative Order	FP	Clark	Negotiating before filing.
1-03-90	Victor Carlson	Administrative Order	AQ	Clark	Hearing set for 5/23/90.
1-04-90	Joe Villinger	Administrative Order	SW	Kennedy	Negotiating before filing.
1/08-90	Northwestern State Portland Cement Co.	Permit Amendment	WW	Landa	Sent DIA.
1-10-90	Ruth Ann Coe	Administrative Order	AQ SW	Kennedy	Hearing set for 5/18/90.
1-18-90	Midland Fly Ash and Materials	Permit Variance Denial	SW	Landa	Hearing set for 8/7/90.
2-07-90	Jerry Jones	401 Denial	WW	Murphy	Negotiating before filing.
2-12-90	James Richard & Francis Morrow d/b/a Morrow	Administrative Order	AQ SW	Clark	Settled.
2-13-90	Kenneth M. Rasch, d/b/a Rasch Construction, Inc.	Administrative Order	AQ	Kennedy	Negotiating before filing.
2-15-90	Holiday Lake Water System, Ltd.	Administrative Order	WS	Hansen	Submittal by facility under review by EPC.
2-15-90	Fred Calabro	Administrative Order	SW	Kennedy	Hearing continued.
2-19-90	American Meat Protein Corp. and Lytton, City of	Administrative Order	WW	Hansen	Hearing set for 5/24/90.
3-05-90	Gerald Reimer	Administrative Order	SW	Kennedy	Negotiating before filing.
3-05-90	College Springs, City of	Administrative Order	WS	Hansen	Submittal by facility under review by EPD.
3-05-90	Earlville, City of	Administrative Order	WS	Clark	Settled.
3-12-90	Louisa Courts	Administrative Order	WS	Hansen	Hearing set for 6/15/90
3-14-90	Robert E. Zezulka	Administrative Order	SW	Kennedy	Negotiating before filing.
3-20-90	Kaneb Pipeline Co.	Administrative Order	HC	Landa	Sent to DIA.
3-22-90	Arcadian Corporation	Permit conditions	WW	Hansen	Negotiating before filing.
3-22-90	Vern Starling	Administrative Order	SW	Kennedy	Negotiating before filing.
3-26-90	Loretta June Novak and Mr. and Mrs. Robert Booth, Jr.	Administrative Order	UT	Landa	Sent to DIA.
3-27-90	Orchard, City of	Administrative Order	WW	Hansen	Negotiating before filing.
4-18-90	Harcourt, City of	Administrative Order	WS	Hansen	Negotiating before filing.
4-23-90	Sioux City, City of	Administrative Order	WW	Hansen	Informal hearing set for 5/11/90.
4-26-90	Donald Ray Maasdam	Administrative Order	SW	Kennedy	Negotiating before filing.

Discussion followed regarding variances and freeboard requirements; DeWitt penalty; map on LUST's to date; and various A.G. referrals.

Mr. Stokes commented that some of the Commissioners received correspondence from Don Etler regarding a case in which he raises some form of prima faca evidence that there is confusion going back to the state water quality standards and its implications to drainage districts, principally, what's going to be the department's position on draining created wetlands under the CRP program. Mr. Stokes stated that there is no connection between the case Mr. Etler raises and the issue. Mr. Etler's case relates to a floodplain where a party did a stream straightening and channelization project on a stream of sufficiently large size that it was covered under the permit provisions under Chapters 70, 71, and 72, which require that certain criteria apply in regards to mitigation aspects for wildlife. He added that mitigation was required even though it would be less stringent than had we religiously followed a mitigation guidance that the department has. The department appealed the case and the hearing officer's decision has yet to be rendered on that case. He added that it does not relate at all as we are not talking about a wetland or CRP ground.

This was an informational item; no action was required.

FINAL RULE--CHAPTER 23, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS-ASBESTOS DEMOLITION & RENOVATION OPERATIONS

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The Department has adopted all of the National Emission Standards for Hazardous Air Pollutants which can be delegated to the states, with the exception of asbestos demolition and renovation operations. The Department is requesting the commission to adopt these asbestos regulations by reference.

The NESHAPS rules proposed for adoption are federally enforceable at this time. Adoption of the rules by IDNR would not impose any additional restrictions on industry but merely transfer the primary authority to the department for enforcing the regulations.

At the February Environmental Protection Commission meeting a notice of intended action was approved to take the proposed rules to public hearing. Public hearings were held on April 10, 1990, in Atlantic; April 11, 1990, in Oakdale; and April 12, 1990, in Des Moines.

No one from the public attended the hearings. Written comments were accepted through April 13, 1990. No written comments were submitted.

You are therefore asked to approve for adoption the draft rules as published.

ENVIRONMENTAL PROTECTION COMMISSION (567)
Adopted Rule

Pursuant to the authority of Iowa Code section 455B.133, the Environmental Protection Commission adopts amendments to 567-- Chapter 23, Iowa Administrative Code "Emission Standards for Contaminants". The Commission adopts by reference federal regulations pertaining to emission standards for hazardous air pollutants by including an additional pollutant category.

In order to prevent new air pollution problems, by Section 112 of the Clean Air Act, the EPA was required to adopt emission standards for "hazardous air pollutants," those pollutants which cause or contribute to air pollution which may reasonably be anticipated to result in an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness. These standards apply to new and existing sources and are adopted by reference by subrule 567--23.1(3)(455B).

In greater detail, the following amendment is adopted:

Item 1 amends subrule 567--23.1(3)(455B) by including federal regulations adopted by reference pertaining to asbestos demolition and renovation operations. These are regulations, specified in 40 CFR Part 61 which were promulgated by EPA in 1984.

These amendments appeared as a Notice of Intended Action, ARC 756A, in the Iowa Administrative Bulletin published on March 21, 1990. There were no comments on the proposed amendments and these amendments are identical to those published as ARC 756A.

These rules are intended to implement Iowa Code section 455B.133. These rules will become effective on July 18, 1990.

The following amendment is adopted:

ITEM 1. Subrule 567--23.1(3)(455B) is amended as follows:

23.1(3) Emission standards for hazardous air pollutants. The federal standards of emissions for hazardous air pollutants, 40 Code of Federal Regulations Part 61 as amended through March 19, 1987, are adopted by reference, except 40 CFR §61.20 to §61.28, §61.90, to 61.98, §61.100 to §61.108, §61.120 to 61.126, ~~and §61.145 to 61.147,~~ and §61.250 to 61.252 and shall apply to the following affected pollutants and facilities and activities listed below. The corresponding 40 C.F.R. Part 61 subpart designation is in parentheses. Reference test methods (Appendix B), compliance status information requirements (Appendix A), quality assurance procedures (Appendix C) and the general provisions (Subpart A) of Part 61 also apply to the affected activities or facilities.

Further amend subrule 567--23.1(3)(455B) by revising the following paragraph:

a. Asbestos. Any of the following involves asbestos emissions: Asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, and spraying applications, <u>and demolition and renovation operations.</u> ~~Demolition and renovation emissions as stated in 40 CFR §61.145 through §61.147 are not included.~~ (Subpart M)

Date

Larry J. Wilson, Director

Mr. Stokes gave a brief explanation of the rules.

Motion was made by Margaret Prahl to approve Final Rule--Chapter 23, National Emission Standards for Hazardous Air Pollutants (NESHAPS) - Asbestos Demolition and Renovation Operations. Seconded by Mike Earley. Motion carried unanimously.

NOTICE OF INTENDED ACTION--CHAPTER 22, PREVENTION OF SIGNIFICANT DETERIORATION (PSD)

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The Commission is requested to amend 567-22.4 Special requirements for major stationary sources located in areas designated attainment or unclassified.

These draft rules update the existing rules which adopt federal Prevention of Significant Deterioration (PSD) permitting rules by reference.

The effect of this update is to add Nitrogen Dioxide (NO2) increments to existing Sulfur Dioxide (SO2) and Particulate increments. Increments define the maximum additional contamination which larger sources can add to the existing pollutant levels even if all other air quality standards are met.

Federal rules require EPA to impose these limits after November 19, 1990, in those states which have not adopted these NO2 increments.

The Commission is requested to approve the attached notice of intended action.

ENVIRONMENTAL PROTECTION COMMISSION

Notice of Intended Action

Pursuant to the authority of Iowa Code section 455B.133, the Environmental Protection Commission gives Notice of Intended Action to amend Chapter 22, "Controlling Pollution," Iowa Administrative Code.

This amendment pertains to the adoption of EPA regulations which establish the maximum increase in ambient nitrogen dioxide concentrations allowed in an area above the baseline concentration. These maximum allowable increases are called increments. These rules apply to major sources constructed or modified in areas which are expected to remain in attainment of ambient air quality standards and are a part of the Prevention of Significant Deterioration (PSD) program.

The Department currently has increments for total suspended particulates (TSP) and sulfur dioxide (SO2). This amendment will add increments for nitrogen dioxide (NO2).

Any person interested in receiving a copy of the federal regulations proposed to be adopted by reference may contact the Department of Natural Resources. Copies are available upon request from the Department for the cost of reproduction.

Any interested party may file a written statement of position on the subject covered by the proposed amendment no later than July 22, 1990. These written statements should be directed to the Director of the Department of Natural Resources, 900 East Grand Avenue, Des Moines, Iowa 50319-0034 (FAX# 515/281-8895).

Persons or organizations are also invited to present oral or written comments at public hearing on this proposed amendment which will be held at the following times and places:

July 11, 1990, 2 p.m., Wallace State Office Building, Fifth Floor Conference Room, 900 East Grand Avenue, Des Moines, Iowa; July 12, 1990, 1 p.m., Room M-113, University of Iowa, Oakdale Campus, Oakdale Hall, Oakdale, Iowa (Exit 240, I-80 to Highway 965); July 11, 1990, 10 a.m., Atlantic Municipal Utilities Building, Conference Room, 15 West Third Street, Atlantic, Iowa.

These rules are intended to implement Iowa Code section 455B.133.

Amend 567-22.4(455B) as follows:

Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD). Except as provided in subrule 22.4(1), the following federal regulations pertaining to the prevention of significant deterioration are adopted by reference, 40 C.F.R. subsection 52.21 as amended through ~~July 1, 1987~~ October 17, 1988.

_____

Date

_____

Larry J. Wilson, Director

Mr. Stokes gave an explanation of the rules.

Motion was made by Margaret Prahl to approve Notice of Intended Action--Chapter 22, Prevention of Significant Deterioration (PSD). Seconded by Richard Hartsuck. Motion carried unanimously.

NOTICE OF INTENDED ACTION--CHAPTER 61, WATER BODY CLASSIFICATIONS

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The Commission is requested to approve the Notice of Intended Action for revisions to Chapter 61, Water Quality Standards-Use Designations. The proposed revisions reflect the initial changes in use designations for the water bodies for which adequate data are available to recommend a use designation. The recommended changes follow the new designations described in the recent modifications to Chapter 61. The recommended uses include:

1) Significant Resource designations to the larger rivers supporting a sport fisheries;

2) Limited Resource designation to two smaller creeks, portions of which were previously classified as only general waters and portions as Class B(warm) waters;

3) Lakes & Wetland designation for all lakes and wetland noted in the past use designations and;

4) Maintain the past use designations for all Class A (primary contact recreation), Class C (potable water sources), High Quality and High Quality Resource waters.

If approved two public hearings will be held. One in Des Moines to receive statewide comments and one in Washington to receive comments from the region of the two streams recommended to have the Limited Resource designation.

The two streams that are proposed to be designated Limited Resource streams are currently designated as B(warmwater) and general streams. The proposed redesignation will mean that a portion of each stream that is now general will be designated Limited Resource and a portion that is now B(warmwater) will be designated Limited Resource.

The dischargers to these streams are West Chester and Washington to the West Fork Crooked Creek and Ottumwa Airport Authority to a tributary that goes into Cedar Creek. Washington and the Ottumwa Airport Authority are making improvements to their wastewater treatment plants and requested a reveiw of these streams. The economic impact to these discharges was part of the larger economic impact statement prepared by the DNR this year. There are no discharges to the portions of the streams where the designation is proposed to change from general to Limited Resource.

(Notice of Intended Action is shown on the following 41 pages)

ENVIRONMENTAL PROTECTION COMMISSION
Notice of Intended Action

Pursuant to the authority of Iowa Code section 455B.105 and 455B.173, the Environmental Protection Commissions for the Department of Natural Resources gives Notice of Intended Action to amend Chapter 61, "Water Quality Standards".

The recent revisions which amended the numerical and narrative criteria of the water quality standards effective May 23, 1990, included new aquatic use protection designations for Iowa's various water bodies. It is anticipated that approximately three years of field activities will be required to properly determine and assign the appropriate use designations to all individual rivers, streams and lakes. The determination and adoption of use designations are required prior to implementation of the amended water quality standards in establishing individual effluent limits for wastewater treatment facilities. This Notice of Intended Action lists the first group of waters for which the new use designations are warranted.

This list of rivers, streams, and lakes represent the water bodies which are: 1) important sport fisheries warranting protection under the Significant Resource warmwater (Class "B(ww)") use designation, 2) important trout waters warranting continued protection under the cold water aquatic life (Class "B(cw)") use designation, 3) important lakes and wetlands warranting protection under the Lakes and Wetlands (Class "B(lw)") use designation, 4) important locations where existing primary contact reaeration is occurring (Class "A" use designation), and 5) the Class C (drinking water supplies), High Quality and High Quality Resource designations as noted in the past water quality standards. In addition, two streams (Cedar Cr. - Wapello Co. and West Fork Crooked Cr. - Washington Co.) received urgent review of their appropriate use designation due to wastewater treatment facility planning activities. The specific use designations are noted in subrule 61.3(5)"e".

Within the subrule 61.3(5), two modifications are being proposed. Item 1 will replace the past terms with the new use designations for Significant Resource, Limited Resource, and Lakes/Wetlands. Item 2 will list the specific stream segments for which new use designations are being proposed. Item 2 does not list all of the stream segments in the state, but only the segments recommended for modifications at this time.

Any interested person may submit written suggestions or comments on the proposed rule changes through July 20, 1990. Such written materials should be directed to Ralph Turkle, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034, of FAX #

515-281-8895. Persons who have questions may contact Ralph Turkle at (515)281-7025. Persons are also invited to present oral or written comments at public hearings which will be held at 7:00pm on July 9, 1990 in the Iowa Guard Armory, Hwy 1 and 92, Washington, Iowa and on July 10, 1990 at 1:00pm in the auditorium of the Wallace State Office Building, 900 East Grand, Des Moines, Iowa.

These rules may have an impact upon small businesses.

Copies of these proposed rules may be obtained from Sarah Detmer, Records Center, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034.

These rules are intended to implement Iowa Code Chapter 455B, Division III, Part I.

ITEM 1. Rescind subrule 61.3(5)"a"(2) and insert the following in lieu thereof:

61.3(5)"a"(2) "B" means wildlife, aquatic life, and secondary body contact uses. "WW" means significant resource warm water, "LR" means limited resource warm water, "LW" means lakes and wetlands warm water, "CW" means cold water.

ITEM 2. Rescind subrule 61.3(5)"e" and insert the following in lieu thereof:

Iowa Water Quality Standards
Water Use Designations

e.

WESTERN IOWA RIVER BASINS

Western Iowa River Basins (Missouri, Big Sioux, and Little Sioux Rivers)

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for Western Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Big Sioux River - 6
Boyer River - 3
Floyd River - 5
Little Sioux River - 7, 8, 9
Missouri River - 1, 2
Soldier River - 4

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Missouri R.								
1. Iowa-Missouri State Line to confluence with the Big Sioux R.	X	X						
2. City of Council Bluffs Water Works Intakes						X		
Boyer R.								
3. Mouth (Pottawattamie Co.) to confluence with the East Boyer R. (Crawford Co.)		X						
Soldier R.								
4. Mouth (Harrison Co.) to confluence with E. Soldier R.		X						
Floyd R.								
5. Mouth (Woodbury Co.) to confluence with W. Br. Floyd R. (Plymouth Co.)		X						
Big Sioux R.								
6. Mouth (Woodbury Co.) to Iowa-Minnesota State Line	X	X						
Little Sioux R.								
7. Mouth (Harrison Co.) to Hwy. 3 in Cherokee (S26, T92N, R40W, Cherokee Co.)		X						
8. Hwy. 3 in Cherokee (S26, T92N, R40W, Cherokee Co.) to Linn Grove Dam (Buena Vista Co.)	X	X						X
9. Linn Grove Dam (Buena Vista Co.) to Clay Co., S17, T96N, R36W (east corporate limit, Spencer)		X						X

Iowa Water Quality Standards
Water Use Designations

SOUTHERN IOWA RIVER BASINS

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for Southern Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Chariton River - 1 to 4
East Fork 102 River - 5
East Nishnabotna River - 9
Nishnabotna River - 8
Nodaway River - 6, 7
Silver Creek - 11
West Nishnabotna River - 10

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Chariton R.								
1. Iowa-Missouri State Line (Appanoose Co.) to Hwy. 2 (Appanoose Co., S27, T69N, R17W)		X						
2. Hwy. 2 (Appanoose Co., S27, T69N, R17W) to Rathbun Reservoir Dam (Appanoose Co., S35, T69N, R18W)		X						X
3. Rathbun Regional Water Company water supply intake						X		
4. Rathbun Reservoir Dam to Appanoose-Wayne Co. Line	X	X						X
5. E. FK. 102 R. City of Bedford Water Works Intake						X		
Nodaway R.								
6. Iowa-Missouri State Line (Page Co.) to confluence of Middle Nodaway R. and the W. Nodaway R. (Montgomery Co.)		X						
7. City of Clarinda Water Works intake						X		
Nishnabotna R.								
8. Iowa-Missouri State Line (Fremont Co.) to confluence of the E. Nishnabotna R. and the W. Nishnabotna R. (Fremont Co.)		X						
E. Nishnabotna R.								
9. Mouth (Fremont Co.) to confluence of Troublesome Creek (Cass Co.)		X						
W. Nishnabotna R.								
10. Mouth (Fremont Co.) to confluence with W Fk. of W Nishnabotna R. (Shelby Co.)		X						
Silver Cr.								
11. Mouth (Mills Co.) to Hwy. 41 (Mills Co.)		X						

Iowa Water Quality Standards
Water Use Designations

DES MOINES RIVER BASIN

Des Moines River Basin (Lower Des Moines River, Upper Des Moines River, East Fork Des Moines River, Blue Earth River, and Raccoon River Subbasins).

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations the Des Moines River Basin. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Big Creek Lake - 14
Boone River - 15, 16, 17
Brushy Creek - 31
Des Moines River - 1, 2, 4 to 13
East Fork Des Moines River - 18, 19, 20
Middle Raccoon River - 27, 28, 29, 30, 31
Middle River - 3
North Raccoon River - 24, 25
Raccoon River - 21, 22, 23
South Raccoon River - 24

	Water uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
LOWER DES MOINES RIVER SUBBASIN								
Des Moines R.								
1. Mouth (Lee Co.) to confluence with the Raccoon River (includes Red Rock Reservoir)	X	X						
2. Ottumwa Municipal Water Works intake						X		
Middle R.								
3. Mouth (Warren Co.) to confluence with Fletcher Br. (Madison co.)		X						
UPPER DES MOINES RIVER SUBBASIN								
Des Moines R.								
4. Raccoon R. to Center St. Dam in Des Moines		X						
5. Center St. Dam in Des Moines to Hwy. I-80/I-35 (S17, T97N, R24W, Polk Co.)	X	X						
6. Des Moines Water Works Intake, Prospect Park (NE 1/4, S28, T79N, R24W, Polk Co.)						X		
7. Hwy. I-80/I-35 to Saylorville Reservoir Dam		X						
8. Saylorville Reservoir Dam to Polk-Dallas Co. Line	X	X						
9. Saylorville Reservoir to Fraser Dam (S2, T84N, R27W, Boone Co.)		X						
10. Fraser Dam (Boone Co.) to W. line of S15, T88N, R28W, Webster Co.		X						X

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
UPPER DES MOINES RIVER SUBBASIN								
Des Moines R.								
11. West line of S15, T88N, R28W (Webster Co.) to dam of upper impoundment at Fort Dodge		X						
12. Upper impoundment at Fort Dodge	X	X						
13. Fort Dodge Upper impoundment to Humboldt Dam		X						
Big Cr. Lake Outlet								
14. Big Cr. Lake	X	X						
Boone R.								
15. Mouth (Webster Co.) To State Hwy. 17 (S18, T88N, R25W, Hamilton Co.)	X	X						X
16. State Hwy. 17 to confluence with Brewers Creek (Hamilton Co.)		X						X
17. Confluence with Brewers Creek to confluence with Otter Creek (Wright Co.)		X						
EAST FORK DES MOINES RIVER SUBBASIN								
E Fk. Des Moines R.								
18. Mouth (Humboldt Co.) to Divine bridge access Hwy. 169 (S26, T94N, R29W, Kossuth Co.)	X	X						X
19. Divine bridge access Hwy. 169 (S26, T94N, R29W, Kossuth Co.) to County Rd. B63 (S23, T94N, R29W, Kossuth Co.)		X						X
20. County Rd. B63 (Kossuth Co.) to confluence with Buffalo Cr. (Kossuth Co.)		X						
RACCOON RIVER SUBBASIN								
Raccoon R.								
21. Mouth (Polk Co.) to Polk-Dallas County line	X	X						
22. City of Des Moines Water Works intake						X		
23. Polk-Dallas Co. line to confluence of N. Raccoon R. and S. Raccoon R.	X	X						X
N. Raccoon R.								
24. Mouth (Dallas Co.) to Hwy. 286 (S17, T85N, R33W, Carroll Co.)	X	X						X
25. Hwy. 286 (Carroll Co.) to Sac. Co. Rd. M54 (S24, T88N, R36W, Sac Co.)	X	X						

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
DES MOINES RIVER BASIN	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
RACCOON RIVER SUBBASIN								
S. Raccoon R.								
26. Mouth (Dallas Co.) to confluence with Brushy Cr. (Guthrie Co.)		X						
Middle Raccoon R.								
27. Mouth (Dallas Co.) to Redfield Dam (S5, T78N R29W, Dallas Co.)	X	X						
27. Redfield Dam (Dallas Co.) to Lake Panorama Dam (S31, T80N, R30W, Guthrie Co.)	X	X						X
28. City of Panora Water Works Intakes						X		X
29. Lake Panorama	X	X						X
30. Lake Panorama to Guthrie-Carroll County line	X							
Brushy Creek								
31. Mouth (Guthrie Co.) to the Guthrie-Audubon Co. Line		X						

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Skunk River Basin. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Cedar Creek - 9
Mississippi River - 1, 2, 3
Skunk River - 4, 5, 6, 7, 8
South Skunk River - 11, 12, 13
West Fork Crooked Creek - 10

		Water Uses						
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Mississippi R.								
1. Iowa-Missouri State Line to confluence with the Skunk R.	X	X						
2. Keokuk Municipal Water Works intakes						X		
3. Fort Madison Municipal Water Works intakes						X		
Skunk R.								
4. Mouth to Oakland Mills Dam		X						
Oakland Mills Impoundment								
5. Dam to N line of S14, T71N, R7W, Henry Co.	X	X						
6. City of Mt. Pleasant Water Works intake						X		
7. Oakland Mills Impoundment to Henry Co. Rd. (S3, T71, R7W)		X						
8. Henry Co. Rd. (S3, T73N, R7W) to confluence of N Skunk R. and S Skunk R.		X						X
Cedar Cr.								
9. Confluence with Little Cedar Cr. (S26, T73N, R13W) to confluence with an unnamed tributary (NW 1/4 of the NE 1/4, S24, T74N, R15W, Mahaska Co.)			X					
W. Fk. Crooked Cr.								
10. Mouth (Washington Co.) to confluence with an unnamed tributary (SW 1/4, S21, T76N, R9W, Washington Co.)			X					

Iowa Water Quality Standards
Water Use Designations

IOWA-CEDAR RIVER BASIN

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Iowa-Cedar River Basin. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Beaver Creek - 38
Beeds Lake - 44
Big Creek - 31
Black Hawk Creek - 34, 35
Burr Oak - Creek - 37
Cedar River - 16 to 28
Cone Lake - 29
Iowa River - 3 to 13
Little Cedar River - 36
Lower Pine Lake - 14
Mississippi River - 1, 2
Prairie Creek - 32
Rock Creek - 39, 40
Shell Rock River - 45, 46, 47
Spring Creek - 41
Sugar Creek - 30
Turtle Creek - 42
Upper Pine Lake - 15
West Fork Cedar River - 43
Winnebago River - 48, 49
Wolf Creek - 33

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Mississippi R.								
1. Skunk R. to confluence with Iowa R.	X	X						
2. Burlington Municipal Water Works intakes						X		
IOWA RIVER SUBBASIN								
(Mississippi R. Tributaries)								
Iowa R.								
3. Mouth (Louisa Co.) to Louisa County, Section 35, T74N, R3W, (south corporate limit, Wapello).	X	X						X
4. South corporate limit, Wapello to confluence with Cedar River (louisa County, Section 20, T75N, R4W)	X	X						
5. Confluence with Cedar River to Johnson-Washington County line	X	X						X
6. Johnson-Washington County line to Hwy. 149 (Iowa County, Section 35, T81N, R9W) (includes Coralville Reservoir)	X	X						

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
IOWA-CEDAR RIVER BASIN								
IOWA RIVER SUBBASIN								
(Iowa R., Continued)								
7. University of Iowa Water Works intake						X		
8. City of Iowa City Water Works intakes						X		
9. Hwy. 149 to confluence with Asher Creek (Marshall County, Section 27, T84N, R18W)	X	X						X
10. Confluence with Asher Creek to Marshall-Hardin County line.	X	X						
11. Marshall-Hardin County line to Hardin County, Section 20, T89N, R20W, (east corporate limit, Iowa Falls	X	X						X
12. East corporate limit Iowa Falls to Hwy. 69 bridge (Section 30, T93N, R23W, Wright Co.)	X	X						
13. Hwy. 69 bridge to confluence of E Fk. Iowa R. and W Fk. Iowa R. (Wright Co.)		X						
14. Lower Pine Lake	X	X						
15. Upper Pine Lake	X	X						
CEDAR RIVER SUBBASIN								
Cedar R.								
16. Mouth (louisa Co.) to Hwy. 30 (Linn County, Section 9, T82N, R6W)	X	X						X
17. Hwy. 30 to bridge crossing in LaPorte City (Section 19, T87N, R11W, Black Hawk Co.)	X	X						
18. Cedar Rapids Municipal Water Works intake						X		
19. Bridge crossing in LaPorte City to the dam at Cedar Falls		X						
20. Cedar Falls impoundment Dam to W line of Section 2, T89N, R14W, Black Hawk Co.	X	X						
21. Cedar Falls impoundment to Black Hawk County, Section 34, T90N, R14W (confluence with Beaver Creek)		X						

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
IOWA-CEDAR RIVER BASIN								
CEDAR RIVER SUBBASIN								
(Cedar River Tributaries)								
22. Confluence with Beaver Creek to Dam at Waverly		X						X
23. Waverly impoundment Dam to W line of Section 35, T92N, R14W, Bremer Co.	X	X						X
24. Waverly impoundment to Chickasaw County, Section 29, T94N, R14W (south corporate limits, Nashua)	X							X
25. South corporate limits of Nashua to dam at Nashua	X							
26. Nashua impoundment Dam to Chickasaw-Floyd Co. Line	X	X						
27. Nashua impoundment to Charles City Dam # 2		X						
28. Charles City impoundment Dam #2 to Iowa-Minnesota State Line	X	X						
Pike Cr.								
29. Cone Lake	X	X						
Sugar Cr.								
30. Mouth (Muscatine Co.) to confluence with Mud Cr. (Muscatine Co.)		X						
Big Cr.								
31. Mouth (Linn Co.) to confluence with Abbe Cr. (Linn Co.)		X						
Prairie Cr.								
32. Mouth (Linn Co.) to confluence with Mud Cr. (Benton Co.)		X						
Wolf Cr.								
33. Mouth (Black Hawk Co.) to confluence with Twelve Mile Cr. (Tama Co.)		X						
Black Hawk Creek								
34. Mouth (Black Hawk Co.) to Hwy 58 (E half of Section 27, T88N, R14W, Black Hawk Co.)	X	X						
35. Hwy. 58 to confluence with N. Black Hawk Cr. (Grundy Co.)		X						

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
IOWA-CEDAR RIVER BASIN								
CEDAR RIVER SUBBASIN								
(Cedar R. Tributaries, Continued)								
Little Cedar R.								
36. Mouth (Chickasaw Co.) to Iowa-Minn. State Line		X						
Burr Oak Cr.								
37. Mitchell Co. Rd. T46 to N line of S5, T98N, R16W, Mitchell Co.					X			X
Beaver Cr.								
38. Mouth (Mitchell Co.) to Mitchell Co. Rd. A31 (N line of S19, T99N, R15W, Mitchell Co.)					X			X
Rock Cr.								
39. Mouth (Floyd Co.) to confluence with Goose Cr. (S35, T98N, R18W, Mitchell Co.)		X						
40. Confluence with Goose Cr. (Mitchell Co.) to Hwy. 9 (N line of S26, T98N, R18W, Mitchell Co.)					X			X
Spring Cr.								
41. Mouth (Mitchell Co.) to N line of S8, T97N R16W, Mitchell Co.					X		X	
Turtle Cr.								
42. Mouth (Mitchell Co.) to E line of Section 7, T99, R17W, Mitchell Co.					X		X	
WEST FORK CEDAR RIVER SUBBASIN								
W. Fk. Cedar R.								
43. Mouth (Black Hawk Co.) to confluence with Maynes Creek (Butler County, S7, T91N, R17W)		X						X
44. Beeds Lake								
Dam to W line of S16, T92N, R20W, Franklin Co.	X	X						
SHELL ROCK RIVER SUBBASIN								
Shell Rock R.								
45. Mouth (Black Hawk Co.) to Butler County, Section 12, T91N, R15W, (south corporate limits, Shellrock)		X						X
46. South corporate limit of Shellrock to confluence with the Winnabago R.		X						

Iowa Water Quality Standards
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	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
IOWA-CEDAR RIVER BASIN								
SHELL ROCK RIVER SUBBASIN								
47. Winnabago R. to Iowa-Minn. State Line	X	X						
WINNEBAGO RIVER SUBBASIN								
Winnebago R. (aka Lime Cr.)								
48. Mouth (Floyd Co.) to dam at Fertile (S34, T98N, R22W, Worth Co.)		X						
49. Mill Pond at Fertile	X	X						

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS

Northeastern Iowa River Basins (Wapsipinicon River, Maquoketa River, North Fork Maquoketa River, Turkey River, Volga River, Yellow River, and Upper Iowa River Subbasins).

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for Northeastern Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Alderson Hollow - 81
Bass Creek - 73
Bear Creek - 24
Bear Creek - 79
Bear Creek - 87
Bear Creek - 119, 120
Beaver Creek - 145
Bell Creek - 71
Bigalk Creek - 144
Bloody Run - 46
Bloody Run - 57
Bloody Run - 95
Bohemian Creek - 74
Brophy Creek - 6
Brownfield Creek - 63
Brush Creek - 22, 23
Brush Creek - 86
Buck Creek - 91
Buffalo Creek - 8, 9
Casey Spring Creek - 138
Canoe Creek - 127
Catfish Creek - 42, 43
Cedar Creek - 30
Cedar Creek - 59
Chlalk Creek - 75
Clear Creek - 112
Clear Creek - 117
Cloie Branch - 47
Cold Water Creek - 142
Coon Creek - 130
Cota Creek - 107
Cox Creek - 81
Deep Creek - 21
Dousman Creek - 99
Dry Mill Creek - 68
Dry Run - 135
East Pine Creek -141
Elk Creek - 60
Elk River - 13
Ensign Creek - 84
Ensign Hollow - 84
Fenchel Creek - 27
Fountain Spring Creek - 65
French Creek - 116
Grannis Creek - 88
Grimes Hollow - 57
Hewett Creek - 83
Hickory Creek - 102
Hogans Branch - 49
Irish Hollow Creek - 115
Kleiniein Creek - 82
Little Maquoketa River - 44, 45
Little Mill Creek - 38
Little Paint Creek - 106
Little Turkey River - 55
Little Turkey River - 72
Little Volga River - 89
Little Wapsipinicon River - 12
Lytle Creek - 31
Maquoketa River - 14 to 20
Martha Creek - 143
Middle Bear Creek - 123
Middle Fk. Little Maquoketa R. - 48
Mill Creek - 36, 37
Miners Creek - 90
Mink Creek - 85
Mississippi River - 1, 2
Mossey Glen Creek - 80
Nichols Creek - 144
Norfolk Creek - 103
North Bear Creek - 122
North Canoe Creek - 129
North Cedar Creek - 93
North Fork Maquoketa River - 28, 29
Odell Branch - 65
Otter Creek - 10, 11
Otter Creek - 69
Ozark Spring Run - 33
Paint Creek - 104, 105
Paint Creek - 124
Patterson Creek - 126
Pecks Creek - 58
Pine Creek - 62
Pine Creek - 128
Pine Creek - 140
Pleasant Creek - 35
Plum Creek - 25
Point Hollow Creek - 56
Schechtman Branch - 67
Silver Creek - 7
Silver Creek - 118
Silver Creek - 139
Smith Creek - 132
Sny Magill Creek - 92
South Branch Fountain Spring Creek - 66
South Cedar Creek - 59
South Fork Big Mill Creek - 39
Spring Creek - 26
Spring Creek - 82
Staff Creek - 146
Steeles Branch - 61
Storybrook Hollow - 40
Suttle Creek - 100
Ten Mile Creek - 137
Trout Creek - 131
Trout Creek - 133
Trout River - 132
Trout Run - 111
Trout Run - 134
Turkey River - 50 to 54
Twin Springs Creek - 64
Twin Springs Creek - 136
Unnamed Creek - 32
Unnamed Creek - 39
Unnamed Creek - 40
Unnamed creek - 41
Unnamed Creek - 70
Unnamed Creek - 94
Unnamed Creek - 101
Unnamed Creek - 110
Unnamed Creek - 125
Unnamed Creek - 138
Unnamed Creek - 142
Unnamed Stream - 134

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS

Upper Iowa River - 113, 114
Village Creek - 109
Volga River - 76 to 78
Wapsipinicon River - 3, 4, 5
Waterloo Creek - 121
Wexford Creek - 108
Whitewater Creek - 34
White Pine Creek - 56
Yellow River - 96,97,98

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Mississippi R.								
1. Iowa R. to the Iowa-Minnesota State Line	X	X						
2. Davenport Water Company Water Works intake						X		
WAPSIPINICON RIVER SUBBASIN								
(Mississippi R. Tributaries)								
Wapsipinicon R.								
3. Mouth (Scott-Clinton Co. Line) to Snyder Access, Section 34, T93N, R12W, Bremer Co.	X	X						X
4. Snyder Access (Section 24, T93N, R12W, Bremer Co.) to confluence with the Little Wapsipinicon (Chickasaw Co.)		X						
5. Town of McIntire to N line of Section 20, T100N, R15W, Mitchell Co.		X					X	
Brophy Cr.								
6. Mouth (Clinton Co.) to confluence with Cherry Cr. (Clinton Co.)		X						
Silver Cr.								
7. Mouth (Clinton Cr.) to confluence with Clear Cr. (Clinton Co.)		X						
Buffalo Cr.								
8. Mouth (Jones Co.) to the dam at Coggon (Linn Co.)		X						
9. Coggon Impoundment	X	X						
Otter Cr.								
10. Mouth (Buchanan Co.) to Dam at Lake Oelwein		X						
11. Lake Oelwein to N line of Section 33, T91N, R9W, Fayette Co.	X	X						

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Water Uses							
WAPSIPINICON RIVER BASIN								
(Wapsipinicon R. Tributaries, Continued)								
Little Wapsipinicon R.								
12. Mouth (Buchanan Co.) to confluence with Buck Cr. (Buchanan Co.)		X						
MAQUOKETA RIVER SUBBASIN								
(Mississippi R. Tributaries)								
Elk R.								
13. Mouth (Clinton Co.) to confluence with N Br. Elk R. (Clinton Co.)		X						
Maquoketa R.								
14. Mouth (Jackson Co.) to confluence with Deep Cr. Jackson Co., Section 18, T84N, R5E	X	X						
15. Confluence with Deep Creek to confluence with Plum Creek (Delaware Co., Section 11, T87N, R4W)	X	X						X
16. Confluence with Plum Creek to Quaker Mills Dam (Delaware County, Section 19, T89N, R5W)	X	X						
17. Quaker Mills Impoundment	X	X						
18. Quaker Mills Impoundment to Forestville Dam at Backbone Lake		X						
19. Backbone Lake Dam to boundry of Backbone State Park	X	X						
20. Mouth of S Fk. Maquoketa R. (S16, T90N, R6W, Delaware Co.) to Hwy. 3 (N line of Section 24, T91N, R7W, Fayette Co.)					X		X	
Deep Cr.								
21. Mouth (Jackson Co.) to confluence with Sugar Cr. (Jackson Co.)		X						
Brush Cr.								
22. Mouth (Jackson Co.) to N line of Section 23, T85N, R3E, Jackson Co.		X						
23. N. line of Section 23, T85N, R3E to N line of Section 1, T85N, R3E, Jackson Co.					X		X	

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN IOWA RIVER BASIN								
MAQUOKETA RIVER SUBBASIN								
(Maquoketa R. Tributaries, Continued)								
Bear Cr. (aka Big Bear Cr.)								
24. Mouth (Jackson Co.) to confluence with Beers Cr. (Jackson Co.)		X						
Plum Cr.								
25. Mouth (Delaware Co.) to N line of S25, T89N, R4W, Delaware Co.		X						
Spring Br.								
26. Mouth (S10, T88N, R5W, Delaware Co.) to spring source (Section 35, T89N, R5W, Delaware Co.)					X		X	
Fenchel Cr.								
27. Mouth (S5, T90N, R6W, Delaware Co.) to Richmond Springs (center of S4, T90N, R6W, Delaware Co.)					X		X	
NORTH FORK MAQUOKETA RIVER SUBBASIN								
N. Fk. Maquoketa R.								
28. Mouth (Jackson Co.) to confluence with White Water Cr. (Jones Co., Section 10, T86N, R1W)		X						X
29. Confluence with White Water Cr. to confluence with Bear Cr. (Dubuque Co.)		X						
Cedar Cr.								
30. Mouth (S30, T85N, R3E, Jackson Co.) to E line of Section 29, T85N, R3E, Jackson Co.)					X			X
Lytle Cr.								
31. Mouth (Jackson Co.) to confluence with Buncomb Cr. (Dubuque Co.)		X						
Unnamed Cr.								
32. Mouth (S7, T86N, R2E, Jackson Co.) to W line of Section 11, T86N, R1E, Jackson Co.					X			X

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASIN

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTH FORK MAQUOKETA RIVER SUBBASIN								
(N Fk. Maquoketa R. Tributaries, Continued)								
Ozark Spring Run								
33. Mouth (S5, T85N, R1E, Jackson Co.) to spring source in center of S32, T86N, R1E, Jackson Co.					X			X
Whitewater Cr.								
34. Mouth (S10, T86N, R1W, Jones Co.) to confluence with Johns Cr. (Dubuque Co.)		X						
TURKEY RIVER SUBBASIN								
(Mississippi R. Tributaries)								
Pleasant Cr.								
35. W line of Section 11, T85N, R4E to W line of Section 15, T85N, R4E, Jackson Co.					X			X
Mill Cr. (aka Big Mill Cr.)								
36. Mouth (S29, T86N, R5E, Jackson Co.) to confluence with Little Mill Cr. (S13, T86N, R4E, Jackson Co.)		X						
37. confluence with Little Mill Cr. to confluence with Unnamed Cr. (Section 1, T86N, R3E, Jackson Co.)					X		X	
Little Mill Cr.								
38. Mouth (Jackson Co.) to W. line of Section 29, T86N, R4E, Jackson Co.					X		X	
Unnamed Cr. (aka S. Fk. Big Mill)								
39. Mouth (Section 8, T86N, R4E, Jackson Co.) to west line of Section 17, T86N, R4E, Jackson Co.					X		X	
Unnamed Cr. (aka Storybrook Hollow)								
40. Mouth (Section 1, T86N, R4E, Jackson Co.) to S line of Section 12, T86N, R3E, Jackson Co.					X		X	
Unnamed Cr.								
41. Mouth (Section 1, T86N, R3E, Jackson Co.) to W line of Section 1, T86N, R3E, Jackson Co.					X		X	
Catfish Cr.								
42. Mouth (Dubuque Co.) to confluence with N Fk. Catfish Cr. (Dubuque Co.)		X						

Iowa Water Quality Standards
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NORTHEASTERN IOWA RIVER BASIN

TURKEY RIVER SUBBASIN	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
(Mississippi R. Tributaries, Continued)								
Catfish Cr.								
43. S line of Section 9, T88N, R2E, to W line of Section 7, T88N, R2E, Dubuque Co.					X			X
Little Maquoketa R.								
44. Mouth (Dubuque Co.) to confluence with Hogans Br. (S36, T89N, R1W, Dubuque Co.)		X						
45. Hogans Br. to N line of Section 5, T88N, R1W, Dubuque Co.					X			X
Bloody Run								
46. Mouth (S4, T90N, R2E, Dubuque Co.) to W line of Section 21, T90W, R2E, Dubuque Co.					X			X
Cloie Br.								
47. Mouth (S5, T89N, R2E, Dubuque Co.) to W line of Section 5, T89N, R2E, Dubuque Co.					X			X
Middle Fk. Little Maquoketa R.								
48. (aka Bankston Cr.) W line of Section 31, T90N, R1E to N line of Section 33, T90N, R1W, Dubuque Co.					X		X	
Hogans Br.								
49. Mouth (S36, T89N, R1W, Dubuque Co.) to W line of Section 9, T88N, R1W, Dubuque Co.					X			X
Turkey R.								
50. Mouth (Clayton Co.) to confluence with the Volga R. (Section 26, T92N, R4W, Clinton Co.)		X						
51. Confluence with the Volga R. to W line of Section 9, T93N, R5W, Clayton Co. (two stream miles downstream from Big Springs Trout Hatchery)	X	X					X	
52. Two stream miles downstream from Big Springs Trout Hatchery to Big Springs Trout Hatchery (S31, T94N, R5W, Clayton Co.)	X				X		X	

Iowa Water Quality Standards
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NORTHEASTERN IOWA RIVER BASINS	Water uses A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
TURKEY RIVER SUBBASIN								
(Mississippi R. Tributaries, Continued)								
Turkey R.								
53. Big Springs Trout Harchery to bridge crossing in Elgin (Section 13, T94N, R7W, Fayette Co.)	X	X					X	
54. Bridge crossing in Elgin to confluence with Bohemian Cr. (Winneshiek Co.)		X					X	
(Turkey River Tributaries)								
Little Turkey R.								
55. Clayton-Delaware Co. Line to S line of Section 11, T90N, R3W, Deleware Co.					X		X	
Point Hollow Cr. (aka White Pine Cr.)								
56. Mouth (S31, T91N, R2W, Clayton Co.) to spring source (S3, T90N, R2W, Dubuque Co.)					X			X
Bloody Run Cr. (aka Grimes Hollow)								
57. Mouth Section 36, T91N, R3W, Clayton Co. to spring source (S8, T90N, R2W, Dubuque Co.)					X			X
Pecks Cr.								
58. Mouth (Clayton Co.) to S line of Section 15, T91N, R3W, Clayton Co.					X			X
S Cedar Cr. (aka Cedar Cr.)								
59. N line if S7, T92N, R3W, Clayton Co. to N line of S24, T93N, R4W, Clayton Co.					X			X
60. Elk Cr. Mouth to confluence with Steeles Br. (Clayton Co.)								
Steeles Br.								
61. Mouth (S26, T91N, R4W, Clayton Co.) to W line of Section 5, T90N, R4W, Delaware Co.		X			X			X
Pine Cr.								
62. Mouth (S26, T91N, R4W, Clayton Co.) to confluence with Brownfield Cr. (S25, T91N, R4W, Clayton Co.)					X			X
Brownfield Cr.								
63. Mouth (Clayton Co.) to spring source (S31, T91N, R3W, Clayton Co.)					X			X

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS	Water Uses A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
TURKEY RIVER SUBBASIN								
(Turkey River Tributaries, Continued)								
Twin Springs Cr.								
64. Mouth (S2, T90N, R4W, Delaware Co.) to spring source (S12, T90N, R4W, Delaware Co.)					X			X
Fountain Spring Cr. (aka Odell Br.)								
65. Mouth (S10, T90N, R4W, Delaware Co.) to W line of Section 16, T90N, R4W, Delaware Co.					X		X	
S Br. Fountain Spring Cr.								
66. Mouth (S16, T90N, R4W, Delaware Co.) to W line of Section 16, T90N, R4W, Delaware Co.					X			X
Schechtman Br.								
67. Mouth (Delaware Co.) to S line of Section 14, T90N, R4W, Delaware Co.					X			X
Volga R.								
(See Volga R. Subbasin)								
Dry Mill Cr.								
68. Mouth (S25, T94N, R5W, Clayton Co.) to W line of Section 9, T93N, R4W, Clayton Co.					X			X
Otter Cr.								
69. Mouth (Fayette Co.) to Confluence with Unnamed Cr. (aka Glovers Cr., S22, T94N, R8W, Fayette Co.)					X		X	
Unnamed Cr.								
70. Mouth to W line of S15, T94N, R8W, Fayette Co.					X		X	
Bell Cr.								
71. Mouth (S10, T94N, R7W, Fayette Co.) to W line of Section 8, T94N, R7W, Fayette Co.					X			X

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
				Water Uses				
TURKEY RIVER SUBBASIN								
(Turkey River Tributaries, Continued)								
Little Turkey R.								
72. Mouth (Fayette Co) to Fayette-Winneshiek Co. line		X						
Bass Cr.								
73. Mouth (S3, T95N, R9W, Fayette Co.) to W line of Section 3, T95N, R9W, Fayette Co.					X			X
Bohemian Cr.								
74. Mouth (Winneshiek Co.) to Howard Co. Rd. V58 (W line of Section 2, T97N, R11W, Howard Co.)					X		X	
Chlalk Cr.								
75. Mouth (Section 1, T98N, R11W, Howard Co.) to N line of Section 36, T99N, R11W, Howard Co.					X			X
VOLGA RIVER SUBBASIN								
Volga R.								
76. Mouth (Clayton Co.) to bridge crossing in Volga, (Section 3-10, T92N, R6W, Clayton Co.)	X	X						X
77. Bridge crossing in Volga Fayette County, S28, T93N, R8W, (E. Corporate limit, Fayette)		X						X
78. East corporate limit, Fayette, to confluence with Little Volga R. (Fayette Co.)		X						
Bear Cr.								
79. S line of Section 18, T91N, R4W, to W line of Section 23, T91N, R5W, Clayton Co.					X			X
Mossey Glen Cr.								
80. Mouth (S3, T91N, R5W, Clayton Co.) to S line of Section 10, T91N, R5W, Clayton Co.					X			X
Cox Cr. (aka Alderson Hollow)								
81. Klelniein Cr. to S line of Section 12, T91N, R6W, Clayton Co.					X			X
Klelniein Cr. (aka Spring Cr.)								
82. Mouth (Clayton Co.) to spring source (S10, T91N, R6W, Clayton Co.)					X			X

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS	Water Uses A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
VOLGA RIVER SUBBASIN								
(Volga R. Tributaries, Continued)								
Hewett Cr.								
83. Mouth (Clayton Co.) to S line of Section 29, T92N, R6W, Clayton Co.					X			X
Ensign Cr. (aka Ensign Hollow)								
84. Mouth (Section 28, T92N, R6W, Clayton Co.) to spring source (S29, T92N, R6W, Clayton Co.)					X		X	
Mink Cr.								
85. Mouth (S30, T93N, R6W, Clayton Co.) to W line of Section 15, T93N, R7W, Fayette Co.					X		X	
Brush Cr.								
86. Bear Cr. to E line of Section 17, T92N, R7W, Fayette Co.					X			X
Bear Cr.								
87. Mouth (Fayette Co.) to W line of Section 6, T92N, R7W, Fayette Co.					X		X	
Grannis Cr.								
88. Mouth (S30, T95N, R7W, Fayette Co.) to W line of Section 36, T95N, R8W, Fayette Co.					X		X	
Little Volga R.								
89. Mouth (Fayette Co.) to Hwy 150 bridge crossing (Fayette Co.)		X						
YELLOW RIVER SUBBASIN								
(Mississippi R. Tributaries)								
Miners Cr.								
90. Hwy. 52 (SE quarter of S20, T92N, R2W, Clayton Co. to W line of Section 1, T92N, R3W, Clayton Co.)					X			X
Buck Cr.								
91. Mouth (Clayton Co.) to W line of Section 9, T93N, R3W, Clayton Co.					X		X	
Sny Magill Cr. (aka Magill Cr.)								
92. Mouth (S23, T94N, R3W, Clayton Co.) to W line of Section 6, T94N, R3W, Clayton Co.)					X		X	

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASIN	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
YELLOW RIVER BASIN								
(Mississippi R. Tributaries, Continued)								
N. Cedar Cr.								
93. Mouth (S8, T94N, R3W, Clayton Co.) to W line of Section 24, T94N, R4W, Clayton Co.					X		X	
Unnamed Cr. (aka W Fk. Sny Magill Cr.)								
94. Mouth (S7, T94N, R3W, Clayton Co.) to W line of Section 7, T94N, R3W, Clayton Co.					X			X
Bloody Run								
95. Mouth (Clayton Co.) to W line of Section 22, T95N, R4W, Clayton Co.					X			X
Yellow R.								
96. Mouth (Allamakee Co.) to Country Rd. X-26 (Section 24, T96N, R5W, Allamakee Co.)	X	X						X
97. County Rd. X-26 (Allamakee Co.) to old Hwy. 51 (NE quarter of S11, T96N, R6W, Allamakee Co.)		X						X
98. Old Hwy 51 to confluence with N Fk. Yellow R. (S13, T96N, R7W, Winneshiek Co.)					X			X
Dousman Cr.								
99. Mouth (S33, T96N, R3W, Allamakee Co.) to Allamakee-Clayton Co. line					X			X
Suttle Cr.								
100. Mouth (Allamakee Co.) to Allamakee-Clayton Co. Line					X			X
Unnamed Cr. (aka Bear Cr.)								
101. Mouth (S13, T96N, R5W, Allamakee Co.) to N line of Section 12, T96N, R5W, Allamakee Co.					X			X
Hickory Cr.								
102. Mouth (Alamakee Co.) to S line of Section 28, T96N, R5W, Allamakee Co.					X		X	
Norfolk Cr.								
103. Mouth (S6, T96N, R5W, Allamakee Co.) to confluence with Teeple Cr. (S24, T97N, R6W, Allamakee Co.)					X			X

Iowa Water Quality Standards
Water Use Designation

UPPER IOWA RIVER SUBBASIN	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
(Mississippi R. Tributaries)								
Paint Cr.								
104. Mouth (Allamakee Co.)to confluence with Little Paint Cr.(S32, T97N, R3W, Allamakee Co.)		X						
105. Little Paint Cr. to Rd. crossing, S18, T97N, R4W, Allamakee Co.					X		X	
Little Paint Cr.								
106. Mouth to N line of Section 30, T97N, R3W, Allamakee Co.					X		X	
Cota Cr.								
107. Mouth (S26, T97N, R3W, Allamakee Co.) to W line of Section 10, T97N, R3W, Allamakee Co.)					X			X
Wexford Cr.								
108. Mouth (S5, T97N, R2W, Allamakee Co.) to W line of Section 25, T98N, R3W, Allamakee Co.					X		X	
Village Cr.								
109. Mouth (Allamakee Co.) to W line of Section 19, T98N, R4W, Allamakee Co.								
Unnamed Cr.								
110. Mouth (S23, T98N, R4W, Allamakee Co.) to W line of Section 23, T98N, R4W, Allamakee Co.					X			X
Trout Run								
111. Mouth (S23, T98N, R4W, Allamakee Co.) through one mile reach					X			X
Clear Cr.								
112. Mouth (Allamakee Co.) to W line of Section 25, T99N, R4W, Allamakee Co.								
Upper Iowa R.								
113. Mouth (Allamakee Co.) to Lane's Bridge at river mile 6 (NW 1/4 of S31, T100N, R4W, Allamakee Co.)	X	X						
114. Lane's Bridge to confluence with Silver Creek (Winneshiek Co.)	X	X						X

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
UPPER IOWA RIVER SUBBASIN								
(Upper Iowa R. Tributaries)								
Irish Hollow Cr.								
115. Mouth (S21, T100N, R4W, Allamakee Co.) to N line of Section 17, T100N, R4W, Allamakee Co.					X			X
French Cr.								
116. Mouth (Allamakee Co.) to E line of Section 23, T99N, R5W, Allamakee Co.					X		X	
Clear Cr.								
117. Mouth (Allamakee Co.) to N line of Section 15, T100N, R5W, Allamakee Co.					X			X
Silver Cr.								
118. Mouth (Allamakee Co.) to S line of Section 31, T99N, R5W, Allamakee Co.					X		X	
Bear Cr.								
119. Mouth (Allamakee Co.) to confluence with N Bear Cr. (S25, T100N, R7W, Winneshiek Co.)		X						
120. N Bear Cr. to spring source (Mestad Spring) Section 29, T100N, R7W, Winneshiek Co.					X		X	
Waterloo Cr.								
121. Mouth (S35, T100N, R6W, Allamakee Co.) to Iowa-Minnesota State Line					X		X	
N. Bear Cr.								
122. Mouth (S25, T100N, R7W, Winneshiek Co.) to Iowa-Minnesota State Line					X		X	
Middle Bear Cr.								
123. Mouth (S14, T100N, R7W, Winneshiek Co.) to N line of Section 16, T100N, R7W, Winneshiek Co.					X			X
Paint Cr. (aka Pine Cr.)								
124. Mouth (Section 9, T99N, R6W, Allamakee Co.) to confluence with Unnamed Cr. (SE 1/4 of Section 11, T99N, R7W, Winneshiek Co.					X			X

Iowa Water Quality Standards
Water Use Designation

NORTHEASTERN IOWA RIVER BASINS

UPPER IOWA RIVER SUBBASIN

(Upper Iowa R. Tributaries, Continued)

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
125.	Unnamed Cr. Mouth (SE 1/4, S11, T99N, R7W, Winneshiek Co.) to N line of Section 12, T99N, R7W, Winneshiek Co.					X			X
126.	Patterson Cr. Mouth (Allamakee Co.) to E line of Section 3, T98N, R6W, Allamakee Co.					X		X	
127.	Canoe Cr. (aka W. Canoe Cr.) Winneshiek Co. Rd. W38 to W line of Section 8, T99N, R8W, Winneshiek Co.					X		X	
128.	Pine Cr. Mouth (S26, T99N, R7W, Winneshiek Co.) to N line of Section 21, T99N, R7W, Winneshiek Co.					X			X
129.	N Canoe Cr. Mouth (S22, T99N, R8W, Winneshiek Co.) to N line of Section 2, T99N, R8W, Winneshiek Co.					X			X
130.	Coon Cr. Mouth (Winneshiek Co.) to Rd. crossing in S13, T98N, R7W, Winneshiek Co.					X		X	
131.	Trout Cr. Mouth (S9, T98N, R7W, Winneshiek Co.) to confluence with Smith Cr. (S21, T98N, R7W, Winneshiek Co.)					X			X
132.	Smith Cr. (aka Trout River) Mouth (Section 21, T98N, R7W, Winneshiek Co.) to S line of S33, T98N, R7W, Winneshiek Co.)					X		X	
133.	Trout Cr. Mouth (S23, T98N, R8W, Winneshiek Co.) to confluence with Unnamed Stream (aka Trout Run) (S27, T98N, R8W, Winneshiek Co.)					X			X
134.	Unnamed Stream (aka Trout Run) Mouth to S line of S27, T98N, R8W, Winneshiek Co.					X		X	

Iowa Water Quality Standards
Water Use Designation

NORTHEASTERN IOWA RIVER BASINS	Water Uses A	B(WW)	B(LR)	B(LW)	B(CW)*	C	HQ	HQR
UPPER IOWA RIVER SUBBASIN								
(Upper Iowa R. Tributaries, Continued)								
Dry Run								
135. Mouth (S17, T98N, R8W, Winneshiek Co.) to W line of Section 36, T98N, R9W, Winneshiek Co.					X			X
Twin Springs Cr								
136. Mouth (S17, T98N, R8W, Winneshiek Co.) to springs in Twin Springs Park (S20, T98N, R8W, Winneshiek Co.)					X		X	
Ten Mile Cr.								
137. Mouth (Winneshiek Co.) to confluence with Walnut Cr. (S18, T98N, R9W, Winneshiek Co.)					X			X
Unnamed Cr. (aka Casey Spring Cr.)								
138. Mouth (S25, T99N, R9W, Winneshiek Co.) to W line of Section 26, T99N, R9W, Winneshiek Co.					X			X
Silver Cr.								
139. Mouth (S10, T99N, R9W, Winneshiek Co.) to N line of Section 26, T100N, R9W, Winneshiek Co.					X			X
Pine Cr.								
140. Mouth (Winneshiek Co.) to Iowa-Minnesota State Line					X			X
E Pine Cr.								
141. Mouth (S28, T100N, R9W, Winneshiek Co.) to Iowa-Minnesota State Line.								
142. Unnamed Cr. (aka Cold Water Cr.) Mouth (S32, T100N, R9W, Winneshiek Co.) to N line of Section 31, T100N, R9W, Winneshiek Co.					X		X	
Martha Cr.								
143. Mouth (S6, T99N, R9W, Winneshiek Co.) to W line of Section 13, T99N, R10W, Winneshiek Co.					X			X
Nichols Cr. (aka Bigalk Cr.)								
144. Mouth (S18, T100N, R10W, Winneshiek Co.) to W line of Section 23, T100N, R11W, Howard Co.					X		X	
Beaver Cr.								
145. Mouth (Howard Co.) to S line of S29, T100N, R13W, Howard Co.					X			X
Staff Cr.								
146. Mouth (Howard Co.) to W line of S27, T100N, R14W, Howard Co.					X			X

Iowa Water Quality Standards
Water Use Designations

Lakes

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Adair												
	Meadow Lake	31	76	17	X			X				
	Mormon Trail Lake	33	74	3	X			X				
	Nodaway Lake	32	75	14	X			X		X		
	Orient Lake	31	74	20	X			X		X		
Adams												
	Bindar Lake	34	72	25	X			X		X		
	Lake Icaria	34	72	10	X			X		X		
	West Lake Corning	34	72	36				X		X		
Appanoose												
	Upper Centerville Reservoir	18	68	11	X			X		X		
	Lower Centerville Reservoir	18	68	12	X			X		X		
	Mystic Reservoir	18	69	8	X			X		X		
	Rathbun Reservoir (refer to Southern Iowa River Basins)											
Audubon												
	Nabotna Pond	35	80	11				X				
Benton												
	Dudgeon Lake	10	85	9				X				
	Hannon Lake	11	82	32	X			X				
	Rodgers Park Lake	11	86	1	X			X				
Black Hawk												
	Black Hawk Park Ponds	14	90	34				X				
	Cedar Falls Impoundment (refer to Iowa-Cedar River Basin)											
	City Park Pond (Waterloo)	13	89	15				X				
	Fisher Lake	13	89	6				X				
	George Wyth Lake	13	89	6	X			X				
	Green Belt Lake	13	89	33				X				
	Hope Martin Pond	13	89	27				X				
	Meyer Lake	12	88	6	X			X				
Boone												
	Dickcissell Lake	26	84	24				X				
	Don Williams Lake	27	84	5	X			X				
Bremer												
	Sweet Marsh Reservoir	12	93	34				X				
	Sweet Marsh Seg. A	12	92	2				X				
	Sweet Marsh Seg. B	12	93	35				X				
	Sweet Marsh Seg. C	12	93	34				X				
	Waverly Impoundment (refer to Iowa-Cedar River Basin)											

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Buchanan												
	Troy Mills Marsh	8	87	25				X				
Buena Vista												
	Gustafson Lake	36	93	18	X			X				
	Marathon City Park Pond	35	93	20	X			X				
	Pickerel Lake	35	93	1	X			X				
	Storm Lake (including Little Storm Lake	37	90	14	X			X				
Butler												
	Aplington Pits	17	90	20				X				
	Lake Considine	18	91	12				X				
	Big Marsh	17	91	25				X				
	Sportsman's Pond	16	92	13				X				
Calhoun												
	North Twin Lake	33	88	1	X			X				
	Rockwell City City Pond	32	88	36				X				
	South Twin Lake	33	88	1				X				
Carroll												
	Artesian Lake	33	85	27				X				
	Swan Lake	34	83	5	X			X				
Cass												
	Lake Anita	34	77	32	X			X				
	Cold Springs Lake	37	75	15	X			X				
	Griswold Park Pond	37	75	32				X				
	Iranistan Pond	37	75	8				X				
Cedar												
	Bennett Lake	1	80	11				X				
Cerro Gordo												
	Clear Lake	22	96	13	X			X		X		X
	Clear Lake Marsh	21	96	6				X				
	Fin and Feather Lake	20	96	27				X				
	Lekwa Marsh	22	96	26				X				
	Mason City E Park Pond	20	96	7				X				
	Meadow Lake	20	96	14				X				
	Mcintosh Wildlife Area	22	96	16				X				
	Rockfall Pond	19	97	22				X				
	Rockfall Pond	20	94	10				X				
	Ventura Marsh	22	96	19				X				
Cherokee												
	Larson Lake	39	91	1				X				
	Spring Lake	40	92	28	X			X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Chickasaw	Nashua Impoundment (refer to Iowa-Cedar River Basin)											
	Split Rock Lake	12	94	35	X			X				
Clarke												
	East Lake (Osceola)	25	72	16	X			X				
	Liberty Acres	24	73	8				X				
	West Lake (Osceola)	26	72	13				X		X		
Clay												
	Barringer Slough	35	96	14				X				
	Brugeman Park Pond	38	97	30	X			X				
	Dan Greene Slough	35	97	20				X				
	Elk Lake	35	96	36				X				X
	Scharnberg Pond	38	96	11	X			X				
	Trumbull Lake	35	97	27	X			X				
Clayton												
	Osborne Pond	5	92	9	X			X				
Clinton												
	Goose Lake	4	83	29				X				
Crawford												
	Nelson Park Lake	41	82	2	X			X				
	Sunset Lake	39	83	16				X				
	Yellow Smoke Park Lake	38	83	6	X			X				
Davis												
	Drakesville Ponds	14	69	6				X				
	Eldon Game Area Ponds	12	70	9				X				
	Lake Fisher	13	69	19				X		X		
	Lake Wapello	15	70	34	X			X		X		
Decatur												
	Home Pond	27	67	3				X		X		
	Lake LeShane	27	67	4	X			X		X		
	Nine Eagles Lake	25	67	18	X			X		X		
	Little River Watershed Lake	25	69	19	X			X				
	Slip Bluff Lake	26	68	28	X			X				
Delaware												
	Backbane Lake (refer to Northeastern Iowa River Basins)											
	Quaker Mills Impoundment (refer to Northeastern Iowa River Basins)											
	Silver Lake	4	88	16	X			X				

Iowa Water Quality Stndards
Water use Designation

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Des Moines	Allen Green Refuge Marsh	1	72	29				X				
Dickinson	Big Spirit Lake	36	100	33	X			X		X	X	
	Center Lake	36	99	7	X			X				
	Diamond Lake	37	100	15				X				
	East Okoboji Lake	36	99	29	X			X			X	
	Garlock Slough	37	99	35				X				
	Grover's Marsh	36	100	12								X
	Hale Slough	36	100	23				X				
	Hottes Lake	36	100	18				X				
	Lake Park Pond	38	100	32				X				
	Lily Lake	35	99	18				X				
	Little Spirit Lake	36	100	8	X			X				
	Lower Gar Lake	36	99	32	X			X			X	
	Marble Lake	36	100	17				X				
	Minnewashta Lake	36	99	29	X			X			X	
	Pleasant Lake	35	99	7				X				
	Prairie Lake	36	99	23				X				
	Sandbar Slough	36	100	14				X				
	Silver Lake	38	100	28	X			X		X		
	Sunken Lake	36	100	17				X				
	Swan Lake	35	100	23				X				
	Upper Gar Lake	36	99	29	X			X			X	
	Welch Lake	37	100	23				X				
	West Okoboji Lake	36	99	20	X			X		X	X	
Emmett												
	Burr Oak Lake	33	98	21								X
	High Lake	33	98	14	X			X				
	Ingham Lake	33	98	12	X			X		X		
	Iowa Lake	31	100	12				X				
	Tuttle Lake	32	100	14	X			X				X
	Twelve-Mile Lake	34	98	21				X				
Fayette												
	Frog Hollow (aka Volga Lake)	8	93	3	X			X				
Floyd												
	Charles City Impoundment (refer to Iowa-Cedar River Basin)											
Franklin												
	Beeds Lake (refer to Iowa-Cedar River Basin)											
	Pope Joy Pond	22	90	21				X				
	Robinsons Pond	20	92	23				X				
	Toft Pit	22	91	30	X			X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Fremont												
	Barlett Lake	43	70	4				X				
	Percival Lake	43	69	20				X				
	Scott Lake A	43	70	16				X				
	Scott Lake B	43	70	16				X				
	West Forney's Lake A	43	70	8				X				
	West Forney's Lake B	43	70	8				X				
Greene												
	Spring Lake	30	84	25	X			X				
Grundy												
	Rodman Park Ponds	15	89	34				X				
	Stoehr Lake (Wellsburg)	18	88	15				X				
Guthrie												
	Bays Branch	30	80	22				X				
	Lake Panorama (refer to Des Moines River Basin)											
	Springbrook Lake	31	81	33	X			X				
Hamilton												
	Briggs Woods Lake	25	88	17	X			X				
	Little Wall Lake	24	86	10	X			X				
Hancock												
	Crystal Lake	25	97	15	X			X				
	Eagle Lake	24	96	18				X				
	East Twin Lake	24	94	29				X				
	Eldred Sherwood Lake	24	94	21	X			X				
	Pilot Knob Lake	23	97	3	X			X				
	West Twin Lake	24	94	30				X				
Hardin												
	Lower Pine Lake (refer to Iowa-Cedar River Basin)											
	Upper Pine Lake (refer to Iowa-Cedar River Basin)											
Harrison												
	California Bend	45	78	7				X				
	DeSoto Bend	45	78	21	X			X				X
	DeSoto Bend Pond	45	78	20				X				
	Dunlap Pond	41	81	2				X				
	St. John's Lake	44	78	8				X				
	Schaben Pond	41	81	30				X				
	Tyson Bend	45	79	28				X				
	Willow Lake	43	80	23	X			X				
Henry												
	Geode Lake	5	70	36	X			X		X		
	Oakland Mills Impoundment (refer to Skunk River Basin)											

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Howard												
	Lake Hendricks	14	99	19	X			X				
	Merrick Pond	14	98	5				X				
Humboldt												
	Humboldt Impoundment (Lake Nakomis) (refer to Des Moines River Basin)											
Ida												
	Moorhead Park Pond	39	87	11								
	Crawford Creek							X				
	Impoundment	41	86	10	X			X				
	School Pond	41	87	26	X							
Iowa												
	Amana Lily Pond	9	81	27				X				
	Iowa Lake	11	79	19	X			X				
	Williamsburg Pond	10	79	9				X				
Jackson												
	Dalton Lake	5E	84	34					X		X	
	Green Island Lake	6E	85	20				X				
	North Sabula Lake	7E	84	18	X			X				
	South Sabula Lake	7E	84	19	X			X				
Jasper												
	Maripose Lake	18	81	32	X			X				
	Rock Creek Lake	17	80	17	X			X		X		
Jefferson												
	Fairfield Municipal											
	Reservoir # 1	10	72	24				X		X		
	Fairfield Municipal											
	Reservoir # 2	10	72	24				X		X		
	Jefferson County Park											
	Ponds	8	71	32				X				
	Walton Reservoir	9	72	30				X		X		
Johnson												
	Coralville Reservoir (refer to Iowa-Cedar River Basin)											
	Kent Park Lake	8	80	24	X			X				
	Lake McBride	6	81	29	X			X				
	Swan Lake	7	80	5				X				
Jones												
	Central Park Lake	3	84	1	X			X				
	Muskrat Slough	3	83	16				X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Keokuk												
	Belvadeer Park Ponds	11	76	21				X				
	Griffin Lake	13	76	15				X				
	Yenrougis Pond	12	76	23	X			X				
Kossuth												
	Burt Lake	30	100	9				X				
	Goose Lake	30	100	17				X				
	Lake Smith	29	96	36	X			X				
	Union Slough	28	98	35				X				X
	Whittemore Pit	30	95	9	X			X				
Lee												
	Chatfield Lake	5	65	2	X			X				
	Greenbay Lake	3	68	28				X				
	Poll Miller Park Lake	5	68	9	X			X				
	Shimek Forest Ponds	7	67	31				X				
	Wilson Park Lakes	6	68	35	X			X				
Linn												
	Coggon Impoundment (see Northeastern Iowa River Basin)											
	Central City Ponds	6	85	3				X				
	Pleasant Creek Lake	8	85	31	X			X				
	South Cedar Pond	5	82	28				X				
Louisa												
	Cone Marsh	5	76	14				X				
	Klum Lake	2	75	25				X				
	Lake Odessa	2	73	2	X			X				
Lucas												
	Brown's Slough	20	71	35				X				
	North Colyn Marsh	20	71	30				X				
	South Colyn Marsh	20	71	30				X				
	Ellis Lake	21	72	27				X		X		
	Morris Lake	21	72	26				X		X		
	Red Haw Lake	21	71	28	X			X		X		
	Stephen's Forest Pond #1	23	72	22				X				
	Stephen's Forest Pond #2	23	72	28				X				
	Williamson Pond	21	73	27	X			X				
Lyon												
	Lake Pahoja	48	99	23	X			X				
Madison												
	Badger Creek Lake	27	77	11	X			X				
	Cedar Lake	27	76	19				X		X		

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Mahaska												
	Hawthorn Lake (aka Barnes City Lake)	14	77	10	X			X				
	Edmunson Pond	16	75	27				X				
	Lake Keomah	15	75	13	X			X		X		
	White Oak Conservation Area Lake	14	75	28	X			X				
Marion												
	Knoxville Pond	20	75	11				X				
	Pleasantville Pond	21	76	15				X				
	Red Rock Reservoir (refer to Des Moines River Basin)											
	Roberts Creek Lake	19	76	4	X			X				
	Tower Pond	19	76	25				X				
Marshall												
	Green Castle Lake	17	82	8	X			X				
	Marshall County Lake	18	84	31				X				
Mills												
	Folsom Lake	43	73	32	X			X				
	Glenwood Lake	43	72	12				X				
	Institutional Pond (aka Peter Pan lake)	43	72	24				X				
	Keg Creek Lake	43	72	32				X				
	Malvern Pond (aka Bohner Pond)	41	72	32				X				
	Mile Hill Lake	43	72	26				X				
	P.J. Lake	43	72	29				X				
	Pony Creek Lake	43	72	4				X				
	Willow Slough	40	73	29				X				
Monona												
	Badger Lake	46	85	29				X				
	Blackbird Bend	47	85	28				X				
	Blencoe Lake	45	82	31				X				
	Blue Lake	46	84	35	X			X				
	Decatur Lake	46	83	17	X			X				
	Louisville Bend	46	83	7				X				
	Lower Decatur Lake	46	83	17				X				
	Middle Decatur Lake	46	83	16	X			X				
	Oldham Lake	43	83	13	X			X				
	Rabbitt Island Lake	47	85	28				X				
	Shermen Township Access Area	45	82	8				X				
	Whiting Woods Pond	43	85	30				X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Monroe												
	Albia City Reservoir	17	72	9	X			X		X		
	Cottonwood Pits	17	71	2				X				
	Lake Miami	17	73	20	X			X				
Montgomery												
	Pilot Grove Lake	36	73	1				X				
	Viking Lake	36	71	6	X			X		X		
Muscatine												
	Cone Lake (refer to Iowa-Cedar River Basin)											
	Wiese Slough	2	78	19				X				
O'Brien												
	Dog Creek	39	94	29	X			X				
	Douma Area Pond	41	96	5	X			X				
	Mill Creek (Lake)	41	95	3	X			X				
	Negus Recreation Area Pond	39	94	30				X				
Osceola												
	Ashton Pits	42	98	11	X			X				
	Iowa Lake	39	100	9								
	May City Pits	39	98	6	X			X				
	Ocheyedan Pits	40	99	23	X			X				
	Peters Pit	42	100	19				X				
Page												
	Pierce Creek Pond	39	70	29	X			X				
	Pioneer Park Pond	38	69	28				X				
	Schneck's Lake	36	69	6	X			X				
Palo Alto												
	Five Island Lake	32	96	18	X			X				
	Lost Island Lake	34	97	31	X			X				
	Silver Lake	34	95	20	X			X				
	Sportsman Park Pond	31	96	19	X			X				
	Virgin Lake	34	96	30				X				X
Plymouth												
	LeMars Pit	45	92	25	X			X				
Pocahontas												
	Fonda Reservoir	34	90	22				X				
	Little Clear-Lake	34	91	6				X				
	Lizard Lake	34	91	22				X				
	Sunken Grove Lake	34	90	8				X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Polk	Big Creek Lake (refer to Des Moines River Basin)											
	Dale Maffitt Reservoir	25	78	31	X			X		X		
	Des Moines Water Works Recharge Basins	24	78	12	X			X		X		
	Easter Lake	23	78	19	X			X				
	Fort Des Moines Park Pond	24	78	33				X				
	Grays Lake	24	78	7	X			X				
	Saylorville Reservoir (refer to Des Moines River Basin)											
	Thomas Mitchell Lake	23	79	23				X				
Pottawattamie												
	Arrowhead Pond	41	77	29	X			X				
	Big Lake (including Gilbert's Pond)	44	75	13				X				
	Carter Lake	44	75	23	X			X				
	Lake Manawa	44	74	13	X			X				
Poweshiek												
	Arbor Lake	16	80	20	X			X				
	Diamond Lake	15	78	2				X		X		
	Holiday Lake	14	81	23	X			X				
	Lake Ponderosa	15	78	2	X			X				
Ringgold												
	Lions Club Pond	29	69	31				X				
	Loch Ayr	29	69	30	X			X		X		
	Mt. Ayr Game Area Ponds	30	68	17				X				
	Mt. Ayr Old Reservoir	29	69	31				X				
	Ringgold Management Area Ponds	29	67	13				X				
	Walnut Creek Marsh	30	68	17				X				
Sac												
	Arrowhead lake	36	86	4	X			X				
	Black Hawk Lake	36	87	35	X			X				
	Hallet Pits	36	86	5	X			X				
Scott												
	Blue Grass Lake	2E	78	26				X				
	Cody Lake	4E	80	20				X				
	Lake of the Hills	2E	78	25				X				
	Lambach Lake	2E	78	25				X				
	Odetta Lake	4E	80	20				X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	Water Uses A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Shelby												
	Elk Horn Creek Pond	37	78	10				X				
	Little George Pond	38	79	19				X				
	Manteno Park Pond	40	81	2	X			X				
	Prairie Rose Lake	38	79	36	X			X		X		
	Schimeroski Pond	39	80	5				X				
Sioux												
	Fairview Area Impoundment	48	97	14				X				
	Sioux Center Pit	45	95	8				X				
	Winterfield Pond (aka Van Zee Pit)	46	97	19	X			X				
	Floyd Park Pit	44	94	11				X				
Story												
	Dakin Lake	21	85	16				X				
	Hendrickson Marsh	21	83	1				X				
	Hickory Grove Lake	22	83	24	X			X				
	McFarland's Pond	23	84	7				X				
Tama												
	Casey Lake	13	86	13	X			X				
	Otter Creek Lake	14	84	31	X			X				
	Otter Creek Marsh	14	82	3				X				
	Union Grove Lake	16	85	33	X			X				
Taylor												
	Bedford Impoundment	34	68	26				X		X		
	East Lake (Lenox)	32	70	6	X			X		X		
	Lake of Three Fires	34	68	12	X			X		X		
	West Lake (Lenox)	32	70	5				X		X		
	Wilson Park Lake	32	70	28	X			X				
	Windmill Lake	35	69	36	X			X				
Union												
	Afton City Reservoir	29	72	17				X		X		
	Green Valley Lake	31	73	26	X			X		X		
	McKinley Lake	31	72	11	X			X				
	Summitt Lake	31	72	3				X		X		
	Talmadge Hill Lake/ Marsh	28	72	20	X			X				
	Thayer Lake	28	72	22	X			X				
	Twelve Mile Creek Lake	30	72	12	X			X		X		
Van Buren												
	Indian Lake	8	67	2	X			X				
	Lacey Keosauqua Park Lake	10	68	2	X			X		X		

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Wapello												
	Eldon Pond	12	71	26				X				
	Greater Ottumwa Central Park Ponds	14	72	25	X			X				
Warren												
	Lake Ahquabi	24	75	14	X			X		X		
	Banner Pits	23	77	30				X				
	Hooper Area Pond	24	75	26				X				
Washington												
	Lake Darling	9	74	21	X			X		X		
	Foster Woods Pond	9	77	26				X				
	Iowa Township Pond	6	77	7				X				
	Marr Park Pond	6	75	19				X				
	Sokum Ridge Pond	7	75	15				X				
Wayne												
	Bob White Lake	22	68	4	X			X		X		
	Corydon Reservoir	22	69	24	X			X		X		
	Humeston Reservoir	23	70	9	X			X		X		
	Lineview Reservoir	23	67	16				X		X		
	Seymour Reservoir	20	68	23	X			X		X		
Webster												
	Badger Lake	28	90	19	X			X				
	Lizard Creek Game Area Ponds	29	89	33	X			X				
	Lake Ole	28	86	16				X				
Winnebago												
	Ambrosson Pits	24	98	11	X			X				
	Lake Catherine	25	98	35	X			X				
	Florence Park Pond	25	99	26	X			X				
	Harmon Lake	24	100	21				X				
	Myre Slough	25	98	22				X				
	Rice Lake	23	99	13	X			X				
Winneshiek												
	Cardinal Marsh	10	98	7				X				
	Lake Meyers	9	97	34	X			X				
	Silver Springs Pond	8	96	15				X				
Woodbury												
	Browns Lake	47	87	32	X			X				
	Little Sioux Park Lake	42	89	12	X			X				
	Snyder Bend Lake	47	86	17	X			X				
	Winnebago Bend Lake	47	86	28	X			X				
	Midway Park Lake	44	89	10	X			X				

Iowa Water Quality Standards
Water Use Designations

Lakes (Continued)

County	Lake	Location R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
					Water Uses							
Worth												
	Elk Creek Marsh	22	99	5				X				
	Mill Pond (refer to Iowa-Cedar River Basin)											
	Silver Lake	22	100	14	X			X				X
	Silver Lake Marsh	22	100	10				X				X
	Worth County Lake	20	99	26	X			X				
Wright												
	Big Wall Lake	24	90	14				X				
	Lake Cornelia	24	92	16	X			X				
	Elm Lake	24	92	21				X				X
	Morse Lake	24	93	28				X				

Mr. Stokes gave a detailed explanation of the rules.

Motion was made by William Ehm to approve Notice of Intended Action---Chapter 61, Water Body Classifications. Seconded by Margaret Prahl.

Chairperson Mohr asked why Lake Odetta, Scott County is listed when it has no water in it.

Mr. Stokes stated that it sounds like it might more appropriately be a wetland. He added that staff did not visit each area, and at some point in time it may be removed from the water body classification.

Motion carried unanimously.

With Mike Murphy now present, Chairperson Mohr asked about the reduction in the fine for the Moose Hall in DeWitt (A.G. referral). Discussion followed regarding same. Also discussed was the referral for ASPRO, Inc.

NOTICE OF INTENDED ACTION--CHAPTER 61, WATER QUALITY STANDARDS HUMAN HEALTH CRITERIA

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The recently adopted Water Quality Standards included numeric and narrative criteria for aquatic life. EPA is also requiring states to adopt numeric criteria to protect human health. The department is proposing human health criteria applicable to Iowa waters to prevent EPA from adopting standards for the state. Staff recommendations use the EPA derived numerical values to prevent a potential carcinogenic risk increase of 1 in 100,000 from the consumption of fish. The numerical criteria for protecting human health is based on relationships between contamination of the water to the uptake of a pollutant which will occur in fish and shellfish. The human health criteria are proposed to be implemented similarly to the aquatic life chronic criteria for toxic parameters in that they will not be exceeded beyond the mixing zone. The proposed rules will be distributed at the commission meeting.

DRAFT 5/14/90 RT

ENVIRONMENTAL PROTECTION COMMISSION
Notice of Intended Action

Pursuant to the authority of Iowa Code sections 455B.105 and 455B.173, the Environmental Protection Commission for the Department of Natural Resources gives Notice of Intended Action to amend Chapter 60, "Scope of Title-Definitions-Forms-Rules of Practice," and 61, "Water Quality Standards".

The recent revisions which amended the numerical and narrative criteria of the water quality standards effective May 23, 1990, included new aquatic use protection designations for Iowa's various water bodies. However, with the U.S. Environmental Protection Agency's (EPA) new emphasis to encourage States to adopt instream criteria to protect human health, the Department of Natural Resources proposes to include human health criteria applicable to Iowa waters. The criteria would protect citizens from elevated levels of toxic pollutants due to the consumption of fish and shell fish caught in Iowa waters.

The Department has not developed the numerical criteria from toxicity testing data specific to Iowa, but rather used the EPA national guideline data and selected a probable risk level. The risk level, 10^{-5}, represents the potential for an increase in a cancer incident from 70 years of consumption of an average of 6.5 grams of fish per day by a 70 kilogram individual. The EPA risk assessment used in deriving the numerical criteria assumes the relationships associated with pollutant concentrations in the waters and the resulting contamination of fish flesh.

The human health criteria, noted in Table 1, are proposed to be met at the boundary of the mixing zone following the same approach as for the chronic aquatic life criterion. The more stringent of the criteria will be met by the permit limits developed for the dischargers of the pollutants. Not all parameters included in Table 1 have human health criteria established by EPA.

Item 1 will add a definition for "human health criteria" in the rule 60.2 . As Item 2, subrule 61.2(1) will be expanded to provided guidance on the method to develop additional human health criteria, if needed, for parameters not included in Table 1. Items 3 and 4 will amend subrule 61.2(4) to provide that the human health criteria will be met at the boundary of the mixing zone. Item 5 will add a new subparagraph to 61.3(3)"b"(3) describing the basis for the human health criteria in Table 1. Item 6 will amend subrule 61.3(3), Table 1, by including the actual human health numerical criteria. The rule referenced document "Supporting Document for Iowa Water Quality Management Plans" (Iowa Department of Water, Air and Waste Management, Chapter IV, July 1976, as revised on _____, 1990) will be revised to note the calculation approach to be followed in developing wasteload allocations and permit limits based on the human health criteria.

Any interested person may submit written suggestions or comments on the proposed rule changes through August __, 1990. Such written materials should be directed to Ralph Turkle, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des

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Moines, Iowa 50319-0034, of FAX # 515-281-8895. Persons who have questions may contact Ralph Turkle at (515)281-7025. Persons are also invited to present oral or written comments at public hearings which will be held at ___pm on August __, 1990 in the _____, Iowa and on August__, 1990 at ___pm in the auditorium of the Wallace State Office Building, 900 East Grand, Des Moines, Iowa.

These rules may have an impact upon small businesses.

Copies of these proposed rules may be obtained from Sarah Detmer, Records Center, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034.

These rules are intended to implement Iowa Code Chapter 455B, Division III, Part I.

ITEM 1. Amend rule 60.2 (455B) by adding the following new definition:

"Human health criteria" means that level of pollution which, in the case of non-carcinogens, prevent adverse health effects in humans, and in the case of carcinogens, represent a level of incremental cancer risk of 1 in 100,000. The numerical criteria are based on the human consumption of an average of 6.5 grams of fish and shell fish per day by a 70 kilogram individual for a life span of 70 years.

ITEM 2. Amend subrule 61.2(1), third unnumbered paragraph, as follows:

Certain of the criteria are in narrative form without numeric limitations. In applying such narrative standards, decisions will be based on the U.S. Environmental Protection Agency's methodology described in "Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and their Uses," 1985 and on the rationale contained in "Quality Criteria for Water," published by the U.S. Environmental Protection Agency (1977), as updated by supplemental Section 304 (of the Act) Ambient Water Quality Criteria documents. <u>To provide human health criteria for parameters not having numerical values listed in 61.3(3) Table 1, the required criteria will be based on the rationale contained in these EPA criteria documents. The human health criterion considered will be the value associated with the consumption of fish flesh and a risk factor of 10^{-5} for carcinogenic parameters.</u>

ITEM 3. Amend 61.2(4), first unnumbered paragraph, to read as follows:

61.2(4) Regulatory mixing zones. Mixing zones are recognized as being necessary for the initial assimilation of point source discharges which have received the required degree of treatment or control. Mixing zones shall not be used for, or considered as, a substitute for minimum treatment technology required by subrule 61.2(3). The objective of establishing mixing zones is to provide a means of control over the placement and emission of point source discharges so as to minimize environmental impacts. Waters within a mixing zone shall meet the general water quality criteria of subrule 61.3(2). Waters at and beyond mixing zone boundaries shall meet all applicable standards and the chronic <u>and human health</u> criteria of subrule 61.3(3) Tables 1 and 3 for that particular water body or segment. A zone of initial dilution may be established within the mixing zone beyond which the applicable standards and the acute criteria of subrule 61.3(3) will be met. For waters designated under subrule 61.3(5), any parameter not included in Tables 1, 2 and 3 of

subrule 61.3(3), the chronic and human health criteria, and the acute criterion calculated following subrule 61.2(1), will be met at the mixing zone and zone of initial dilution boundaries respectively.

ITEM 4. Amend 61.2(4) "c", to read as follows:

c. The stream flow used in determining wasteload allocations to assure compliance with the chronic and human health criteria of Table 1 will be that value contained at the boundary of the allowed mixing zone. This stream flow may not exceed the following percentages of the seven-day, ten-year low stream flow as measured at the point of discharge:

(1) Twenty-five percent for interior streams and rivers, and the Big Sioux and Des Moines Rivers.

(2) Ten percent for the Mississippi and Missouri Rivers.

The stream flow in the zone of initial dilution used in determining effluent limits to assure compliance with the acute criteria of Table 1 may not exceed 10 percent of the calculated flow associated with the mixing zone.

ITEM 5. Amend 61.3(3)"b"(3) by adding the following third subparagraph:

3. The human health criteria represents the level of protection necessary, in the case of non-carcinogens, to prevent adverse health effects in humans, and in the case of carcinogens, to prevent a level of incremental cancer risk of not exceeding 1 in 100,000. Instream concentrations in excess of the human health criteria will be allowed only within the boundaries of the mixing zone.

ITEM 6. Amend 61.3(3) Table 1 as follows:

Table 1: Criteria For Chemical Constituents

(all values as micrograms per liter unless noted otherwise). Human health criteria for carcinogenic parameters noted below were based on the prevention of an incremental cancer risk of 1 in 100,000. For parameters not having a noted human health criteria, the U.S. Environmental Protection Agency has not developed final national guideline values.

		Use Designations				
Parameter		B(CW)	B(WW)	B(LR)	B(LW)	C
Arsenic (III)	Chronic	200	200	1000	200	--
	Acute	360	360	1800	360	50
	Human Health	1.4	1.4	--	1.4	--
Barium	Acute	--	--	--	--	1000
Benzene	Acute	--	--	--	--	5
	Human Health	712.8	712.8	--	712.8	--
Cadmium	Chronic	1	15	25	1	--
	Acute	4	75	100	4	10
	Human Health	1680	1680	--	1680	--
Carbon Tetra-chloride	Acute	--	--	--	--	5
	Human Health	44.2	44.2	--	44.2	--

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Parameter		Use Designations B(CW)	B(WW)	B(LR)	B(LW)	C
Chloride	Acute	--	--	--	--	250*
Chlordane	Chronic	.004	.004	.15	.004	--
	Acute	2.5	2.5	2.5	2.5	--
	Human Health	.006	.006	--	.006	--
Chlorobenzene	Human Health	200	200	--	200	--
Chromium (VI)	Chronic	40	40	200	10	--
	Acute	60	60	300	15	50
	Human Health	33,650	33,650	--	33,650	
Copper	Chronic	20	35	55	10	--
	Acute	30	60	90	20	1000
	Human Health	10,000	10,000	--	10,000	--
Cyanide	Chronic	5	10	10	10	--
	Acute	20	45	45	45	20
4,4'- DDT****	Human Health	.0059	.0059	--	.0059	--
para-Dichloro-benzene	Acute	--	--	--	--	75
	Human Health	26,000	26,000	--	26,000	--
3,3-Dichloro benzidine	Human Health	.2	.2	--	.2	--
1,2-Dichloro-ethane	Acute	--	--	--	--	5
	Human Health	986	986	--	986	--
1,1-Dichloro-ethylene	Acute	--	--	--	--	7
	Human Health	32	32	--	32	--
Dieldrin	Human Health	.001	.001	--	.001	--
2,3,7,8-TCDD (Dioxin)	Human Health	.00014***	.00014***	--	.00014***	--
Fluoride	Acute	--	--	--	--	2000
Heptachlor	Human Health	.002	.002	--	.002	--
Lead	Chronic	3	30	80	3	--
	Acute	80	200	750	80	50
Mercury (II)	Chronic	.05	.05	.25	.05	--
	Acute	6.5	6.5	10	2.5	2
	Human Health	1.5	1.5	--	1.5	--

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
Nitrate as NO3	Acute	--	--	--	--	45*
Nickel	Chronic	350	650	750	150	--
	Acute	3250	5800	7000	1400	--
	Human Health	45,840	45,840	--	45,840	--
Polychlorinated Biphenyles (PCBs)	Chronic	.014	.014	1	.014	--
	Acute	2	2	2	2	--
	Human Health	.0004	.0004	--	.0004	--
Polynuclear Aromatic Hydro-Carbons (PAHs)**	Chronic	.03	.03	3	.03	--
	Acute	30	30	30	30	--
	Human Health	.3	.3	--	.3	--
Phenols	Chronic	50	50	50	50	--
	Acute	1000	2500	2500	1000	50
	Human Health	3,000	3,000	--	3,000	--
Selenium (VI)	Chronic	10	125	125	70	--
	Acute	15	175	175	100	10
Silver	Chronic	2.5	8.5	8.5	.35	--
	Acute	30	100	100	4	50
Toluene	Chronic	50	50	150	50	--
	Acute	2500	2500	7500	2500	--
	Human Health	3,000*	3,000*	--	3,000*	--
Total Residual Chlorine (TRC)	Chronic	10	20	25	10	--
	Acute	35	35	40	20	--
1,1,1-Trichloro-ethane	Acute	--	--	--	--	200
	Human Health	1,730*	1,730*	--	1,730*	--
Trichloroethylene (TCE)	Chronic	80	80	80	80	--
	Acute	4000	4000	4000	4000	5
	Human Health	807	807	--	807	--
Vinyl Chloride	Acute	--	--	--	--	2
	Human Health	5,250	5,250	--	5,250	--
Zinc	Chronic	200	450	2000	100	--
	Acute	220	500	2200	110	1000
	Human Health	50,000	50,000	--	50,000	--

*expressed as milligrams/liter
**to include the sum of known and suspected carcinogenic PAHs
***expressed as nanograms/liter
**** The concentrations of 4,4'- DDT or its metabolites; 4,4'- DDE and 4,4'- DDD, individually shall not exceed the human health criterion.

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response to any comments received will be available for public inspection at the EPA Region VII Office, located at 726 Minnesota Avenue in Kansas City, Kansas 66101, and at the local repository for site information: City Hall of Raytown, 10000 East 59th Street, Department of Public Works, Raytown, Missouri 64133, telephone: 816-737-6012.

DATES: Comments must be submitted on or before May 17, 1990.

ADDRESSES: The proposed settlement and additional background information relating to the settlement are available for public inspection during weekday business hours at the EPA Region VII Office at 726 Minnesota Avenue in Kansas City, Kansas 66101. A copy of the proposed settlement may be obtained from Linda McKenzie, Regional Docket Clerk, EPA Region VII, 726 Minnesota Avenue, Kansas City, Kansas 66101, telephone: 913-551-7477.

Comments on the proposed settlement should reference the Elliott Shooting Park, Raytown, Missouri and EPA Docket No. VII-90-F-0009 and should be addressed to Ms. McKenzie at the address above.

FOR FURTHER INFORMATION CONTACT: Mr. Gerhardt Braeckel, Assistant Regional Counsel, EPA Region VII, Office of Regional Counsel, 726 Minnesota Avenue, Kansas City, Kansas 66101, telephone: 913-551-7471.

Dated: March 27, 1990.

David A. Wagoner,

Director, Waste Management Division, U.S. EPA Region VII.

[FR Doc. 90-8900 Filed 4-16-90; 8:45 am]

BILLING CODE 6560-50-01

[OW-FRL-3755-5]

State Compliance with Clean Water Act Requirements for Adoption of Water Quality Criteria for Toxic Pollutants

AGENCY: Environmental Protection Agency.

ACTION: Notice.

SUMMARY: The Environmental Protection Agency today announces the results of its preliminary assessment of State compliance with the Clean Water Act's requirement for the adoption of water quality criteria for toxic pollutants. A listing of all States and Territories is provided which indicates which jurisdictions were in full compliance as of February 4, 1990. The Notice also provides a brief narrative description of the compliance status for each jurisdiction.

FOR FURTHER INFORMATION CONTACT: David K. Sabock, Standards Branch (WH-585), Office of Water Regulations and Standards, EPA, 401 M Street, SW., Washington, DC 20460, telephone: 202-475-7315.

SUPPLEMENTARY INFORMATION:

Background

An important amendment to the Clean Water Act (CWA) in February 1987 was the addition of section 303(c)(2)(B) (see 33 USC 1313(c)(2)(B)). This new provision requires that each:

> * * * State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses. Such criteria shall be specific numerical criteria for such toxic pollutants.

Never before had Congress given specific direction to States as to what must be considered in a State's periodic water quality standards review and revision. In taking this unusual step, Congress signaled its concern with the rate of adoption of criteria for priority pollutants, despite the fact that State adoption has been a national priority since 1983.

CWA section 303(c)(2)(B) reflects Congressional recognition of the critical importance of State water quality standards in the Nation's water pollution control program. Failure to adopt necessary water quality standards for toxic pollutants is a major deficiency in State water pollution control programs. Contamination by toxic pollutants in surface waters is a serious environmental problem. The most recent national water quality inventory report indicates that one-third of monitored river miles, lake acres, and coastal waters have elevated levels of toxics. Forty-seven States and Territories reported a total of 566 fishing advisories and 135 bans, attributed mostly to industrial discharges and land disposal. Sediment contamination is also posing unacceptable risks to aquatic life, wildlife and human health. Sediments have contaminated surface waters to the point that several States have been forced to post swimming bans and close water supplies.

Water quality standards for toxics are essential to evaluate the quality of surface waters and determine the adequacy of control measures to protect those resources. Formally adopted water quality standards form the legal basis for including water quality-based effluent limitations in National Pollutant Discharge Elimination System (NPDES) permits to control toxic pollutant discharges.

Under CWA section 303(c) and EPA's water quality standards regulation (see 40 CFR part 131), States are required to review their water quality standards at least once every three years and, as appropriate, modify and adopt standards. Pursuant to the amendments quoted above, such review now includes an analysis for toxic pollutants.

EPA transmitted guidance to States on December 12, 1988, describing three acceptable options to achieve compliance with CWA section 303(c)(2)(B). A Notice of Availability of the guidance was published in the **Federal Register** (54 FR 346, January 5, 1989). The three options to achieve compliance, which are discussed fully in the December 1988 guidance, are as follows:

(1) Adopt Statewide numeric water quality criteria for all section 307(a) toxic pollutants for which EPA has issued CWA section 304(a) criteria guidance regardless of whether the pollutants are known to be present (currently EPA has issued aquatic life criteria guidance for 32 priority pollutants and human health guidance for 100 priority pollutants);

(2) Adopt specific numeric water quality criteria for section 307(a) a toxic pollutants (for which EPA has issued CWA section 304(a) criteria guidance) as necessary to support designated uses where such pollutants could reasonably be expected to interfere with designated uses;

(3) Adopt a procedure to be applied to a narrative water quality criterion. This procedure shall be used by the State in calculating derived numeric criteria, which shall be used for all purposes of water quality criteria under section 303(c) of the CWA. Such derived criteria need to be developed for section 307(a) toxic pollutants, as necessary to support designated uses, where the discharge or presence of these pollutants could reasonably be expected to interfere with designated uses.

Since the 1987 amendments, there has been dramatic progress by some States in the adoption, and EPA approval, of water quality standards for toxic pollutants. For freshwater aquatic life uses, the average number of priority toxic pollutants with criteria adopted has tripled from 10 per State (in April 1988) to 30 per State (in February 1990). Also, the number of States with some aquatic life criteria adopted has increased from 33 to 45 since 1988. The States are to be commended for their efforts to strengthen their toxics control programs. However, even with the

progress that has been made, many States are short of full compliance with CWA section 303(c)(2)(B).

Methodology for Assessing State Compliance

EPA reviewed each State's water quality standards to develop a preliminary assessment (as of February 4, 1990) of State compliance with CWA section 303(c)(2)(B). While many States have adopted numeric criteria for toxic pollutants, these may not be sufficient in number or stringency to meet the requirements of the Act. Other States have failed to complete required actions in a timely manner. The results of EPA's analysis are summarized in the table included in this Notice.

In developing this preliminary assessment, EPA first determined if the State had submitted a water quality standards review since passage of the 1987 Clean Water Act Amendments. Second, for those States which had completed water quality standards reviews and submitted the results of those reviews to EPA, it was ascertained if the State had fully complied with the requirements of CWA section 303(c)(2)(B).

EPA defines full compliance as State adoption and EPA approval, pursuant to 40 CFR part 131, of water quality standards that are effective under State law and consistent with one of the three options described in the December 1988 toxics guidance document including appropriate human health and aquatic life criteria for all priority pollutants which can reasonably be expected to interfere with designated uses. At a minimum, such pollutants include those associated with CWA section 304(l) short list waters, but may include other priority pollutants based on an analysis of available data at the time of the triennial review. EPA's December 1988 guidance identified other sources of available data that EPA encouraged the States to review in identifying the need for numeric criteria.

Future EPA Action

The Agency is initiating development of a Federal proposed rulemaking applicable to each State not in full compliance with CWA section 303(c)(2)(B). When finalized, such Federally-promulgated water quality standards would be the basis for any necessary water quality-based effluent limits for such toxic pollutants in NPDES permits.

The Office of Water currently envisions that the proposed rule would include criteria for all priority toxic pollutants for which: (1) The State has not adopted fully acceptable criteria (as determined by the EPA Administrator), and (2) EPA has developed section 304(a) criteria recommendations (when those recommendations are based on toxicity). The criteria would be for the protection of both freshwater and marine aquatic life and for the protection of human health. The Office of Water expects to propose the human health criteria at a 10^{-6} upper bound incremental cancer risk level. The priority toxic pollutant criteria proposed for human health would reflect the most recent formal updates in EPA's Integrated Risk Information System (IRIS) system.

The proposed rule would not include criteria for any priority pollutants for which an acceptable array of State criteria have already been adopted and approved by EPA. An example would be a State which has established fully acceptable aquatic life criteria for all priority pollutants for which EPA has issued CWA section 304(a) criteria guidance, but has not established any human health criteria for priority pollutants. In this case the Office of Water anticipates that the proposed rule would not include any aquatic life criteria, but would include, for appropriate water uses, all the Agency's CWA section 304(a) (toxicity-based) human health recommendations for priority pollutants.

Any State that comes into compliance during the regulation development process will be removed from the proposed rule. Even after the final rulemaking is completed, EPA will withdraw the portion of the rule applicable to a State which adopts criteria to achieve compliance with the statute.

Results of EPA Assessment

Table 1 summarizes the results of EPA's assessment of State compliance with CWA section 303(c)(2)(B). A total of six States are preliminarily judged by EPA to be in full compliance with CWA section 303(c)(2)(B) as of February 4, 1990. EPA notes that most States not in full compliance are in the process of revising their toxics criteria, and many are expected to achieve full compliance during FY 1990 based on current adoption schedules and EPA's understanding of the intended revisions. Below, EPA has included information which helps to explain and support the preliminary assessment for each State and Territory. Additional information concerning the status of State compliance with CWA section 303(c)(2)(B) is contained in "Status Report: State Compliance with CWA section 303(c)(2)(B) as of February 4 1990," copies of which are available from the contact listed at the beginning of this Notice.

TABLE 1.—STATUS OF COMPLIANCE WITH CWA SECTION 303(c)(2)(B) AS OF FEBRUARY 4, 1990

State	Is State in full compliance as of Feb. 4, 1990?
Alabama	No
Alaska	No
Arizona	No
Arkansas	No
California	No
Colorado	No
Connecticut	No
Delaware	No
Florida	No
Georgia	No
Hawaii	No
Idaho	No
Illinois	No[1]
Indiana	No
Iowa	No
Kansas	No
Kentucky	No
Louisiana	No
Maine	No
Maryland	No
Massachusetts	No
Michigan	No
Minnesota	No
Mississippi	No
Missouri	No
Montana	Yes
Nebraska	No
Nevada	No
New Hampshire	No
New Jersey	No
New Mexico	No
New York	No
North Carolina	No
North Dakota	No
Ohio	No
Oklahoma	Yes
Oregon	Yes
Pennsylvania	No
Rhode Island	No
South Carolina	No
South Dakota	No
Tennessee	No
Texas	No
Utah	No
Vermont	No
Virginia	No
Washington	No
West Virginia	No
Wisconsin	Yes
Wyoming	No
American Samoa	No
Commonwealth of the Northern Mariana Islands	No
District of Columbia	No
Guam	Yes
Puerto Rico	No
Tr. Territories	No
Virgin Islands	Yes

[1] Illinois achieved full compliance on February 15, 1990.

State-specific Information

Alabama used a combination of Options 2 and 3 in adopting revised standards on January 24, 1990. However, while the criteria are still under review it appears that: (1) an insufficient

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number of numeric criteria were adopted, and (2) the translator procedure for human health is not adequate to meet the requirements of CWA section 303(c)(2)(B) via option 3. The State has given no indication to EPA that changes will be made. The State has freshwater aquatic life criteria for 29 priority pollutants and human health criteria for 16 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

Alaska has adopted federal criteria by reference. Because the reference does not specify a risk level for carcinogens, the State is not considered to be in compliance for human health at present. Specification of a risk level and other revisions are expected during FY 1990. The State is expected to achelve full compliance during FY 1990. The State has freshwater aquatic life criteria for 32 priority pollutants and human health criteria for 108 priority pollutants.

Arizona is expected to adopt additional criteria by the end of FY 1990, but is not expected to submit such criteria for EPA approval until early FY 1991. The State currently has freshwater aquatic life and human health criteria for 26 priority pollutants.

Arkansas is not in compliance for aquatic life due to insufficient criteria for metals, and for human health due to lack of criteria for dioxin, PCBs, and pesticides. The State has adopted freshwater aquatic life criteria for 26 priority pollutants and has not adopted any human health criteria for priority pollutants. The State is not expected to achieve full compliance during FY 1990.

California is on schedule to adopt additional criteria by July, 1990, but is not expected to comply for either aquatic life or human health due to insufficient parametric coverage. The State has adopted freshwater aquatic life criteria for 16 priority pollutants and human health criteria for 19 priority pollutants.

Colorado intends to meet the full compliance requirements via option 2. The State has adopted freshwater aquatic life criteria for 64 priority pollutants and human health criteria for 61 priority pollutants. These adopted criteria have been submitted for review, and EPA expects to take action on the toxics portion of the WQS in the spring of 1990. The State needs to: (1) complete a data evaluation to identify pollutants which can reasonably be expected to be interfering with designated uses, and (2) adopt appropriate criteria based on the results of the data evaluation. The State has indicated to EPA that it will reject any application of health-based standards (i.e., criteria which assume human exposure via consumption of contaminated aquatic organisms) to aquatic life classified segments. This approach will probably not result in section 303(c)(2)(B) compliance for human health. Final resolution of this issue will depend, in part, on the results of the data evaluation.

Connecticut has not yet adopted any water quality criteria for priority pollutants, nor has the State demonstrated that criteria are not required. EPA expects the State to develop and adopt numeric criteria and achieve full compliance using an Option 1 approach during FY 1990.

Delaware adopted revised WQS which were received by EPA on February 7, 1990. These standards are now under review by EPA. The State has taken an option 2 approach (i.e., the State adopted freshwater aquatic life criteria for 34 priority pollutants and human health criteria for 92 priority pollutants). The State is expected to achieve full compliance during FY 1990.

Florida has not completed adoption proceedings. The current proposal reflects an option 2 approach. For aquatic life, EPA has approved criteria previously, but these criteria need to be updated using current (i.e., post 1985) information. The State is expected to adopt revised standards in June 1990. Currently, the State has freshwater aquatic life and human health criteria for 43 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Georgia adopted revised criteria on December 6, 1989. However, the State has not finalized formal adoption for PCBs or dioxin health-based criteria. These criteria are still under review by EPA. The State has freshwater aquatic life criteria for 30 priority pollutants and human health criteria for 90 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

Hawaii adopted revised criteria for aquatic life and human health on January 18, 1990. Additional criteria will probably be required to comply for human health. It is expected that Hawaii will adopt such criteria or submit an acceptable rationale for not doing so during FY 1990. Currently, the State has freshwater aquatic life criteria for 75 priority pollutants and human health criteria for 77 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Idaho has adopted human health criteria for 15 priority pollutants, applicable to drinking water only. Dioxin is not included but is identified on the State's section 304(l) list. The State is not expected to achieve full compliance during FY 1990.

Illinois adopted narrative criteria and a translator procedure on January 31, 1990. As of February 4, 1990, EPA had not yet approved the standards, hence the State was not in full compliance as of that date. The State achieved full compliance on February 15, 1990 when EPA approved the standards.

Indiana adopted water quality standards which were designed to satisfy CWA section 303(c)(2)(B) on December 13, 1989. These were signed by the Governor on January 31, 1990 and became effective on March 3, 1990. The State is expected to submit these standards to EPA for review and approval in the near future. The State adopted freshwater aquatic life criteria for 32 priority pollutants and human health criteria for 103 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Iowa has not adopted sufficient aquatic life or human health criteria. However, the State plans adoption in the spring of 1990 of a number of additional aquatic life criteria and is expected to supply information documenting that more criteria are not required (option 2). The State has a workplan to evaluate the need for more human health criteria and has indicated it will adopt necessary additional human health criteria by the end of the Fiscal Year. Currently, the State has freshwater aquatic life criteria for 10 priority pollutants and human health criteria for 11 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Kansas has drafted an extensive revision of both aquatic life and human health criteria that will undergo the State adoption process over the next three months. Basically the revisions follow an option 1 approach. Currently, the State has freshwater aquatic life criteria for 21 priority pollutants and no human health criteria for priority pollutants. The State is expected to achieve full compliance during FY 1990.

Kentucky has not yet completed adoption proceedings. The present proposal reflects an option 1 approach, and EPA expects adoption in July of 1990. Currently, the State has in effect freshwater aquatic life criteria for 21 priority pollutants and human health criteria for 6 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Louisiana's principal deficiencies are no dioxin criteria, and few metals criteria. The State adopted criteria statewide for the parameters they found could reasonably be expected to interfere with designated uses, and plans to adopt metals criteria by the end

of the year. The State has freshwater aquatic life criteria for 44 priority pollutants and human health criteria for 40 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

Maine has adopted all EPA section 304(a) criteria guidance via an option 1 approach, but EPA has not yet approved the criteria (approval has been withheld due to problems with the State's antidegradation policy). EPA action on the Maine standards is expected in the spring of 1990. The State has freshwater aquatic life criteria for 32 priority pollutants and human health criteria for 108 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Maryland chose an option 2 approach and held public hearings in November 1989. The State is now considering changes and may have to hold additional public hearings. A final adoption date has not been determined. Currently, the State has freshwater aquatic life criteria for 13 priority pollutants and human health criteria for 14 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Massachusetts has not yet adopted any water quality criteria for priority pollutants, nor has the State demonstrated that criteria are not required. Draft WQS revisions have been prepared but have not yet been formally proposed. The State is expected to achieve full compliance during FY 1990.

Michigan Rule 57 meets the option 3 technical requirements but not the administrative requirements. The State has drafted changes. The State has been granted an extension to August, 1990 based upon completion of the previous triennial review in August of 1987. The State is expected to achieve full compliance during FY 1990.

Minnesota has initiated public hearings for water quality standards that should comply with section 303(c)(2)(B). The State expects to have these standards in effect by June 1990. Currently, the State has freshwater aquatic life criteria for 4 priority pollutants but no human health criteria for priority pollutants. The State is expected to achieve full compliance during FY 1990.

Mississippi has not completed adoption proceedings. The current proposal reflects a combination of options 2 and 3, and EPA expects adoption in the spring of 1990. Currently, the State has freshwater aquatic life criteria for 1 priority pollutant and human health criteria for 9 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Missouri adopted aquatic life protection criteria for all priority pollutants for which EPA has criteria in December, 1987. The State also adopted a large number of human health criteria at that time but some only applied to drinking water supply segments. The State has not supplied documentation on why other criteria are not required for fish consumption protection or drinking water supply protection. The State plans to add new human health criteria during FY 1990 or supply the documentation on why additional criteria are not required (option 2). Currently, the State has freshwater aquatic life criteria for 39 priority pollutants and human health criteria for 70 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Montana has achieved full compliance by adopting all EPA criteria guidance by reference (i.e., an option 1 approach). EPA approved the Montana toxics criteria on March 6, 1989. The State has freshwater aquatic life criteria for 32 priority pollutants and human health criteria for 108 priority pollutants.

Nebraska adopted all of EPA's aquatic life criteria in August 1988 (option 1). As of February 4, 1990, the State had freshwater aquatic life criteria for 103 priority pollutants and human health criteria for 30 priority pollutants. On February 10, 1990, the State adopted additional human health criteria, and is expected to submit these criteria to EPA by April 1990. The State is expected to achieve full compliance during FY 1990.

Nevada proposes to adopt aquatic life criteria and some human health criteria in the spring of 1990. It is expected that the Nevada standards will not fully comply due to insufficient human health coverage. Currently, the State has freshwater aquatic life criteria for 35 priority pollutants and human health criteria for 30 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

New Hampshire has not yet adopted any water quality criteria for priority pollutants; nor has the State demonstrated that criteria are not required. New Hampshire DES held a hearing in November 1989 on its proposed WQS. The State is on a schedule to adopt numeric criteria in the spring of 1990. The State is expected to achieve full compliance during FY 1990.

New Jersey has adopted numeric criteria for a limited number of priority pollutants. To achieve compliance, the State will be required to adopt additional human health criteria for 14 organic substances due to expected presence and potential impact on designated uses. In addition, the section 304(l) assessment identified the need for additional aquatic life criteria (for metals) in fresh and marine waters. Required criteria are expected to be adopted during FY 1990. Currently, the State has freshwater aquatic life criteria for 19 priority pollutants and human health criteria for 8 priority pollutants. The State is expected to achieve full compliance during FY 1990.

New Mexico is in compliance for human health due to the apparent absence of toxics at levels which could reasonably be expected to pose human health problems. The State still needs to adopt criteria for metals to achieve compliance for aquatic life, and is expected to do so during FY 1990. Currently, the State has no freshwater aquatic life criteria for priority pollutants and human health criteria for 7 priority pollutants.

New York has adopted criteria for 95 substances and classes of substances (not all of which are priority pollutants). However, EPA expects the 304(l) assessment will identify the need for toxic criteria for metals that are priority pollutants in certain classes of marine waters (such criteria are already adopted for some classes of marine waters). The State is expected to achieve full compliance during FY 1990. Currently, the State has freshwater aquatic life criteria for 49 priority pollutants and human health criteria for 43 priority pollutants.

North Carolina used a combination of options 2 & 3 in adopting toxics criteria. Numeric criteria for selected carcinogens were adopted at a 10^{-6} risk level. In addition, the State adopted a translator mechanism (EPA's criteria equations) for other carcinogens and threshold chemicals which incorporate EPA's section 304(a) criteria assumptions. Such human health criteria have not yet been approved by EPA. Metals criteria for protection of aquatic life are also still under review by EPA. The State adopted freshwater aquatic life criteria for 27 priority pollutants and human health criteria for 35 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

North Dakota intends to comply via option 1. North Dakota originally elected an option 2 approach based on recommendations in EPA's December 1988 toxics guidance and other EPA guidance. Based, in part, on the Agency's announced intent to promulgate an option 1 approach and a reconsideration of the limitations of an option 2 approach, North Dakota is now proposing to achieve compliance via option 1. The State needs to modify their

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standards to: (1) Include EPA section 304(a) criteria not already adopted, and (2) specify the information needed to apply the criteria (e.g., risk level). Currently, the State has freshwater aquatic life criteria for 31 priority pollutants and human health criteria for 15 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Ohio adopted water quality criteria for toxics on February 1, 1990. These standards will become effective on May 1, 1990. While the standards are still under review, EPA has reservations concerning a provision which places greater emphasis on biological measures over numerical and whole-effluent measures of water quality. The State adopted freshwater aquatic life criteria for 74 priority pollutants and human health criteria for 105 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Oklahoma is in full compliance. The State used option 1 for aquatic life criteria and adopted human health criteria for all pollutants on 304(l) short list and several others. EPA approved the State's toxics criteria in January of 1990. The State has freshwater aquatic life criteria for 32 priority pollutants and human health criteria for 20 priority pollutants.

Oregon is in full compliance via an option 1 approach (adoption of criteria for all priority pollutants for which EPA has issued section 304(a) guidance). EPA approved Oregon's toxics criteria on March 9, 1990.

Pennsylvania chose to adopt toxics procedures by reference in the State WQS. EPA conditionally approved the procedures due to concerns regarding public participation and enforceability. The State has responded to EPA's conditions and an Agency action is expected in the spring of 1990. The State is expected to achieve full compliance during FY 1990.

Rhode Island has not yet adopted any human health water quality criteria for priority pollutants, nor has the State demonstrated that such criteria are not required. EPA expects that the State will achieve full compliance via an option 1 approach during FY 1990. The State has freshwater aquatic life criteria for 32 priority pollutants.

South Carolina's State Board adopted revisions to water quality standards which included all of EPA's aquatic life criteria in January of 1989. However, the State Legislature did not act on the bill containing these revisions and, therefore, the revised water quality standards did not become effective. The State's schedule for adoption will probably not result in effective standards for human health in FY 1990. Currently, the State has no water quality criteria for priority pollutants. The State is not expected to achieve full compliance during FY 1990.

South Dakota is expected to comply by way of option 1 during FY 1990. The State has adopted standards using an option 1 approach by referencing the Gold Book. EPA expects to take action on the toxic portion of the State's WQS in March 1990. EPA action has been delayed pending completion of the following items: (1) Confirmation of specific values, and (2) specification of information needed to apply the criteria (e.g., risk level). The State has freshwater aquatic life criteria for 32 priority pollutants and human health criteria for 108 priority pollutants.

Tennessee has not completed adoption proceedings. The current proposal reflects an option 2 approach. The State has not provided an adequate documentation explaining why other criteria were not proposed. Also, the rationale supporting the proposed dioxin criteria remains in question. EPA expects State adoption in April of 1990. Currently, the State has human health criteria for 10 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

Texas is in compliance for aquatic life. The State is not in compliance for human health due to lack of criteria for dioxin, PCBs, pesticides, and organics. The State is expected to correct these deficiencies during FY 1990. The State has adopted freshwater aquatic life criteria for 30 priority pollutants, but has not yet adopted any human health criteria for priority pollutants. The State is expected to achieve full compliance during FY 1990.

Utah is expected to achieve full compliance via option 1 during FY 1990. The State originally elected an option 2 approach based on recommendations in EPA's December 1988 toxics guidance and other EPA guidance. Based, in part, on the Agency's announced intent to promulgate an option 1 approach and a reconsideration of the limitations of an option 2 approach, Utah is now proposing to achieve compliance via option 1. The State needs to modify their standards to: (1) Include EPA Section 304(a) criteria not already adopted, and (2) specify the information needed to apply the criteria (e.g., risk level). Currently, the State has freshwater aquatic life criteria for 31 priority pollutants and human health criteria for 10 priority pollutants.

Vermont has not yet adopted any water quality criteria for priority pollutants, nor has the State demonstrated that criteria are not required. EPA is encouraging the State to proceed using an option 1 approach, and expects the State to achieve full compliance during FY 1990.

Virginia's triennial review will be completed in September which will allow for EPA action around December. The option to be used by the State and other details pertaining to the criteria revision have not yet been made available to EPA. Currently, the State has freshwater aquatic life criteria for 41 priority pollutants and human health criteria for 13 priority pollutants. The State is not expected to achieve full compliance during FY 1990.

Washington has adopted aquatic life criteria for 31 priority pollutants. No human health criteria are adopted. The State has provided written rationale for the 31 identified priority pollutants. Adoption of additional criteria is now scheduled for completion in June of 1991. The State is not expected to achieve full compliance during FY 1990.

West Virginia has chosen option 2. EPA has disapproved the State's WQS since criteria for seven priority pollutants were judged insufficiently protective by EPA. The State has agreed to do an emergency rulemaking in FY 1990 to adopt EPA's criteria for these pollutants. The State has freshwater aquatic life criteria for 66 priority pollutants and human health criteria for 63 priority pollutants. The State is expected to achieve full compliance during FY 1990.

Wisconsin has fully complied with CWA section 303(c)(2)(B). The standards were approved by EPA on May 15, 1988. The State adopted freshwater aquatic life criteria for 25 priority pollutants and human health criteria for 100 priority pollutants.

Wyoming intends to achieve full compliance by way of option 1. Wyoming has proposed specific numerical standards for all of the priority pollutants for which EPA has published criteria (with the exception of several pollutants for which listed human health criteria are based solely on organoleptic effects). The Wyoming proposal has been through several public meetings with the final rulemaking hearing now scheduled for May 22, 1990. Currently, Wyoming has no criteria for priority pollutants. The State is expected to achieve full compliance during FY 1990.

American Samoa proposes to adopt toxics criteria in April, 1990. Currently,

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American Samoa has no criteria for priority pollutants. American Samoa is expected to achieve full compliance during FY 1990.

The Commonwealth of the Northern Marianas Islands and Trust Territories are expected to adopt additional criteria for aquatic life and human health and achieve full compliance during FY 1990.

The District of Columbia adopted aquatic life and human health criteria for toxics in 1985. However, the human health criteria were for water ingestion only. The District has not adopted any criteria assuming a fish consumption exposure pathway, and has proposed to drop the human health criteria based on water consumption. Apparently the one waterbody designated for public water supply has never been used as one. For aquatic life, the District has some criteria for priority pollutants which are outdated. However, the District has agreed to adopt updated aquatic life criteria during FY 1990. Currently, the District has freshwater aquatic life criteria for 123 priority pollutants and human health criteria for 110 priority pollutants. The District is not expected to achieve full compliance during FY 1990.

Guam has fully complied via an option 1 approach (adoption of all EPA criteria by reference). EPA approved the standards on September 30, 1987.

Puerto Rico has submitted draft water quality standards revisions (including numeric criteria for eight toxics). In addition, the 304(1) assessment identified the need for aquatic life-based criteria for seven metals in fresh waters, and a human health-based criterion for one priority pollutant. These criteria are expected to be adopted during FY 1990. Currently, Puerto Rico has freshwater aquatic life criteria for 12 priority pollutants and human health criteria for 8 priority pollutants. The State is expected to achieve full compliance during FY 1990.

The Virgin Islands has complied due to absence of polutants at levels of concern. There are no perennial streams or surface water impoundments, and relatively few point source discharges. Information collected on levels of toxic substances in the coastal waters failed to document any priority pollutant at levels of concern.

Dated: April 2, 1990.

LaJuana S. Wilcher,

Assistant Administrator for Water.

[FR Doc. 90-8780 Filed 4-16-90; 8:45 am]

BILLING CODE 6560-50-M

FEDERAL COMMUNICATIONS COMMISSION

Public Information Collection Requirement Submitted to Office of Management and Budget for Review

April 10, 1990.

The Federal Communications Commission has submitted the following information collection requirement to OMB for review and clearance under the Paperwork Reduction Act of 1980 (44 U.S.C. 3507).

Copies of this submission may be purchased from the Commission's copy contractor, International Transcription Service, (202) 857-3800, 2100 M Street NW., suite 140, Washington, DC 20037. For further information on this submission contact Judy Boley, Federal Communications Commission, (202) 632-7513. Persons wishing to comment on this information collection should contact Eyvette Flynn, Office of Management and Budget, room 3235, NEOB, Washington, DC 20503, (202) 395-3785.

OMB Number: 3060-0054.

Title: Application for Exemption from Ship Radio Station Requirements.

Form Number: FCC Form 820.

Action: Revision.

Respondents: Individuals or households, businesses or other for-profit (including small businesses).

Frequency of Response: On occasion.

Estimated Annual Burden: 100 Responses; 200 Hours.

Needs and Uses: FCC Form 820 is submitted by applicants to apply for exemption from radio provisions of statute, treaty, or international agreement. The data is used by FCC examiners to determine the applicants qualifications for the requested exemption.

Federal Communications Commission.

Donna R. Searcy,

Secretary.

[FR Doc. 90-8800 Filed 4-16-90; 8:45 am]

BILLING CODE 6712-01-M

Public Information Collection Requirement Approved by Office of Management and Budget; Correction

April 10, 1990.

On Thursday, March 29, 1990, the Commission published a notice at 55 FR 11040 announcing that the following information collection had been sent to OMB for review and clearance under the Paperwork Reduction Act of 1980 (44 U.S.C. 3507). The notice was published with erroneous information concerning that collection.

OMB Number: None.

Title: Conditional Temporary Authorization to Operate a part 90 Radio Station.

Form Number: FCC Form 572C.

Action: New collection.

Respondents: Individuals or households, state or local governments, businesses or other for-profit (including small businesses), and non-profit institutions.

Frequency of Response: Recordkeeping requirements.

Estimates Annual Burden: 17,023 Recordkeepers; 1,702 Hours.

Needs and Uses: Applicants eligible to hold a radio station authorization below 470 MHz or in the 929-930 MHz band in the Private Land Mobile Radio Service may use this FCC Form 572C as a conditional temporary authorization to operate their equipment during processing of an application for license grant.

Federal Communications Commission.

Donna R. Searcy,

Secretary.

[FR Doc. 90-8801 Filed 4-16-90; 8:45 am]

BILLING CODE 6712-01-M

FEDERAL MARITIME COMMISSION

Agreement(s) Filed

The Federal Maritime Commission hereby gives notice of the filing of the following agreement(s) pursuant to section 5 of the Shipping Act of 1984.

Interested parties may inspect and obtain a copy of each agreement at the Washington, DC Office of the Federal Maritime Commission, 1100 L Street NW., room 10220. Interested parties may submit comments on each agreement to the Secretary, Federal Maritime Commission, Washington, DC 20573, within 10 days after the date of the Federal Register in which this notice appears. The requirements for comments are found in § 572.603 of title 46 of the Code of Federal Regulations. Interested persons should consult this section before communicating with the Commission regarding a pending agreement.

Agreement No.: 224-200087-002.

Title: Port of Oakland/Maersk Pacific, Ltd. Terminal Agreement.

Parties:

Port of Oakland (Port).

Maersk Pacific, Ltd. (Maersk).

Synopsis: The Agreement amends the basic agreement to provide for the construction and use of an additional container crane owned by an affiliate of Maersk on the assigned premises. The

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Mr. Stokes distributed copies of the proposed rule along with copies of the Federal Register relating to same. He explained the rules in detail and noted some corrections will be made in the numbers for Human Health on the Use Designations charts listed on pages 3 - 5. Mr. Stokes stated that copies of the proposed rules have been distributed to the Water Quality Standards Technical Advisory Group the department has been working with.

This was an informational item; no action was required.

PROPOSED RULE--CHAPTER 39 AMENDMENT, REQUIREMENTS FOR PROPERLY PLUGGING ABANDONED WELLS

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The rules in Chapter 39 describe the proper methods for plugging abandoned wells and implement Senate File 441 that was passed in 1989. The administrative rules review committee at its meeting on April 12, 1990, voted to impose a seventy day delay on two specific sentences in the rule pertaining to filling materials approved for use below the static water level in Class 2 wells. The remainder of Chapter 39 became effective on April 25, 1990.

The two sentences included in the delay action, plus another sentence not included but having the same problem, need to be changed to include agricultural lime as an approved filling material to meet the requirements of the legislative provision.

Although the changes must be made to include agricultural lime as an approved filling material for Class 2 wells, it was not originally included in these sections of Chapter 39 and is not recommended for use below the static water level because: (1) it is readily soluble and may cause cloudy conditions in nearby wells; (2) it is subject to bridging and may create voids in the zone of filling material; and (3) it has a high pH which may create stability problems in water, causing precipitation and plugging of nearby wells.

ENVIRONMENTAL PROTECTION COMMISSION {567}
Notice of Intended Action

Pursuant to the authority of 1989 Iowa Code Supplement section 455b.190, the Environmental Protection Commission intends to amend Chapter 39, "Requirements for Properly Plugging Abandoned Wells", Iowa Administrative Code.

The proposed amendments are designed to conform with statutory provisions relating to the use of agricultural lime. The first two items involve amendments to two sentences that have been delayed by the Administrative Rules Review Committee for a period of seventy days beyond the scheduled effective date. The third item is similar.

Any interested person may file written comments or suggestions on the proposed amendments to the rules through July 31, 1990. Such written materials should be directed to Wayne Reed, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034, FAX 515-281-8895. Persons are also invited to present oral or written comments at a public hearing which will be held on July 31, 1990 at 10:00 a.m. at the Wallace State Office Building in the fifth floor east conference room, 900 East Grand Avenue, Des Moines, Iowa.

Copies of the proposed rules may be obtained from the Records Section, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034.

In accordance with Iowa Code section 17A.31, notice is hereby given that these rules may have an impact on small business.

These rules are intended to implement 1989 Iowa Code Supplement section 455B.190.

ITEM 1. Amend **subrule 39.8(3)**, second paragraph, first sentence, to read as follows:

Filling material consisting of sand, gravel, crushed stone, ~~or~~ pea gravel <u>or agricultural lime</u> shall be placed in the bottom of the well up to four feet below the static water level.

ITEM 2. Amend **paragraph 39.8(4)"a"**, second paragraph, first sentence, to read as follows:

Filling material consisting of pea gravel, crushed stone, ~~or~~ gravel <u>or agricultural lime</u> shall be placed from

the bottom of the well up to ten feet below the bottom of the casing or confining layer, whichever is lower.

ITEM 3. Amend **paragraph 39.8(4)"c"**, first paragraph, second sentence to read as follows:

For the lowest aquifer, filling material consisting of pea gravel, crushed stone, ~~or~~ gravel or agricultural lime shall be placed from the bottom of the well up to ten feet below the bottom of the casing or confining layer, whichever is lower.

_____
Date

_____
Larry J. Wilson, Director

Mr. Stokes distributed copies of the proposed rule and explained same.

Margaret Prahl stated that it is her understanding that if the Commission wishes to leave the rule as originally drafted, and not defer to the Administrative Rules Review Committee, it is printed with an asterisk in the Administrative Code.

Mr. Stokes stated that after the 70 day delay the rule would go into effect, but if the department cited someone on violation of that part of the rule it would put an extra burden of proof on the department to prove we are correct.

This was an informational item; no action was required.

NOTICE OF INTENDED ACTION--CHAPTERS 40, 41, AND 43, WATER SUPPLY

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The Commission is asked to approve the attached Notice of Intended Action for Chapters 40, 41 and 43, Public Water Supply Rules.

The Department is proposing modification of existing Chapters 40 and 41 and creating a new Chapter 43, to incorporate the U.S. EPA regulations on coliform bacteria and filtration and disinfection requirements for public water supplies.

The coliform rules amend current rules including the maximum contaminant level, monitoring requirements, and analytical procedures for total coliform bacteria. The major changes in the coliform rule include:

- a change in the maximum contaminant level and how it is calculated,
- a requirement of a minimum of 5 samples per month be taken if the system is not inspected by the department on a routine basis (every 5 or 10 years), and
- an increase in the number of repeat samples and routine samples following a positive result.

The public water supply will also be required to have a formal sampling plan for coliform testing.

A new chapter, Chapter 43, is being created to consolidate rules pertaining to the general operation of public water supplies into one chapter. Seven sections previously contained within Chapter 41 have been moved to the Chapter 43. In addition a new section pertaining to filtration and disinfection was added to require all surface water supplies and ground water supplies under the direct influence of surface water, to provide filtration and

disinfection and demonstrate that they have adequate treatment and operational controls through specific reporting procedures.

The primary intent of the filtration and disinfection rules is to protect the public from exposure to Giardia lamblia (a protoza disease causing organism) and virus of fecal origin. Major provisions and impacts of the new rule include:

- All public water supplies meeting the "criteria" will be required to install both disinfection and filtration systems, if not present, and provide records and operate both systems as part of their water treatment.
  Note: The department has elected not to adopt EPA options that would permit the public water supply to avoid filtration through a complex procedure of monitoring, controlling, reporting and inspection criteria.

- The department has developed "criteria" for the identification of surface water and ground water supplies under the direct influence of surface water and included these into the rules.

- The rules generally reduce the amount of allowable turbidity (particulate) in the treated water by a factor of 1/2.

- The rules require systems to maintain a minimum of 0.3 mg/L free chlorine and redundant or automatic shut-off systems. Note, these requirements are consistent with current departmental rules but beyond those required by the EPA rules.

- The filtration rules are expected to have the most significant impact on those public water supplies that will be defined as a ground water supply under the direct influence of surface water.

(Notice of Intended Action is shown on the following 13 pages.)

ENVIRONMENTAL PROTECTION COMMISSION [567]
Notice of Intended Action

Pursuant to the authority of Iowa Code sections 455B.105 and 455B.173, the Environmental Protection Commission for the Department of Natural Resources gives notice of Intended Action to amend Chapter 40, "Scope of Division-Definitions-Forms-Rules of Practice," Chapter 41, "Water Supplies," Iowa Administrative Code and to create a new Chapter 43, "Water Supplies - Operation."

These "filtration" rules pertain to revision of the existing Chapters 40 and 41 to add definitions, monitoring requirements and standard language for public notification. Additionally Chapter 43 is being created to contain topics relating to public water supplies' operation requirements and include the new monitoring and performance standards for public water supplies using surface water or ground water influenced by surface water. The rule changes are proposed due to promulgation of the same regulations by EPA which become effective December 31, 1990.

Any interested person may submit suggestions or comments on the proposed rule changes through July 27, 1990. Such written materials should be directed to Joe Zerfas, Water Supply Section, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034 (Fax #515/281-8995). Persons who have questions may contact Joe Zerfas at 515/281-8473. Persons are also invited to present oral or written comments at four public hearings which will be held on: July 9, 1990 at 10 a.m. at the Chariton Community Center, 915 Osage Avenue, Chariton, Iowa; July 10, 1990 at 10 a.m. at Kirkwood Community College in the Iowa Hall Amana Room, Cedar Rapids Iowa; July 11, 1990 at 10 a.m. at the Wallace State Office Building, fourth floor east conference room, 900 East Grand, Des Moines Iowa; and July 12, 1990 at 10 a.m. at the Denison Community Room, 111 North Main Street, Denison Iowa.

These rules may have an impact upon small businesses.

Copies of the proposed rules may be obtained from Sarah Detmer, Records Section, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034.

Chapter 40

ITEM 1. Amend rule 567-40.2(455B) by inserting in alphabetical order the following new definitions:

40.2 Definitions.

"Coagulation" means a process using coagulation chemicals and mixing by which colloidal and suspended materials are destabilized and agglomerated into flocs.

"Conventional filtration treatment" means a series of processes including coagulation, flocculation, sedimentation, and filtration resulting in substantial particulate removal.

"Diatomaceous earth filtration" means a process resulting in substantial particulate removal in which (1) A precoat cake of diatomaceous earth filter media is deposited on a support membrane (septum), and (2) while the water is filtered by passing through the cake on the septum, additional filter media known as body feed is continuously added to the feed water to maintain the permeability of the filter cake.

"Direct filtration" means a series of processes including coagulation and filtration but excluding sedimentation resulting in substantial particulate removal.

"Disinfection" means a process which inactivates pathogenic organisms in water by chemical oxidants or equivalent agents.

"Filtration" means a process for removing particulate matter from water by passage through porous media.

"Flocculation" means a process to enhance agglomeration or collection of smaller floc particles into larger, more easily settleable particles through gentle stirring by hydraulic or mechanical means.

"Legionella" means a genus of bacteria, some species of which have caused a type of pneumonia called Legionnaires Disease.

"Point of disinfectant application" is the point where the disinfectant is applied and water downstream of that point is not subject to recontamination by surface water runoff.

"Residual disinfectant concentration" means the concentration of disinfectant measured in mg/l in a representative sample of water.

"Sedimentation" means a process for removal of solids before filtration by gravity or separation.

"Slow sand filtration" means a process involving passage of raw water through a bed of sand at low velocity (generally less than 0.4 m/h (0.02 ft/sec)) resulting in substantial particulate removal by physical and biological mechanisms.

"Surface water" means all water which is open to the atmosphere and subject to surface runoff.

"Waterborne disease outbreak" means the significant occurrence of acute infectious illness, epidemiologically associated with the ingestion of water from a public water system which is deficient in treatment, as determined by the Iowa Department of Public Health.

"Virus" means a virus of fecal origin which is infectious to humans by waterborne transmission.

ITEM 2. Amend subrule 41.2(3) by adding the following language:

41.2(3) Heterotrophic Plate Count Bacteria (HPC).

a. Applicability. All public water systems that use a surface water source or a ground water source under the direct influence of surface water must provide treatment consisting of disinfection, as specified in 43.5(2), and filtration treatment which complies with 43.5(3). The heterotrophic plate count is an alternate method to demonstrate a detectable disinfectant residual in accordance with 43.5(2)"d".

b. Maximum contaminant levels. Reserved.

c. Monitoring requirements. Reserved.

d. BAT. Reserved.

e. Analytical methodology. Public water systems shall conduct heterotrophic plate count bacteria analysis in accordance with 43.5(2) and the following analytical method. Measurements for heterotrophic plate count bacteria must be conducted by a laboratory certified by the department to do such analysis. Until laboratory certification criteria are developed for the analysis of heterotrophic plate count bacteria, any laboratory certified for total coliform analysis by the department is certified for heterotrophic plate count bacteria analysis. After certification criteria have been established, the laboratory shall meet the criteria at renewal of certification.

(1) The heterotrophic plate count shall be performed in accordance with Method 907A (Pour Plate Method), pp. 864-866, as set forth in "Standard Methods", 16th edition.

(2) Reporting. The public water system shall report the results of heterotrophic plate count in accordance with 43.7(3)"b".

ITEM 3. Delete subrules 41.3(3) and 41.4(2). Provisions of these subrules are now found within new rule 567--41.7(455B) with complete revision.

567--41.7(455B) Physical properties maximum contaminant levels (MCL or treatment technique requirement) and monitoring requirements.

41.7(1) Turbidity.

a. Applicability. The maximum contaminant levels (treatment technique requirements) for turbidity are applicable to community and noncommunity water systems. Those systems currently providing filtration shall meet the requirements of this subrule upon the effective date of this subrule. All public water systems that use a surface water source or a ground water source under the direct influence of surface water must provide treatment consisting of disinfection, as specified in 43.5(2), and filtration treatment which complies with the requirements of paragraph 41.8(1)"b" of this subrule by June 29, 1993 or within 18 months after the department determines that filtration is required or pursuant to a schedule in an operation permit. The department may require, and the system shall comply, with any interim turbidity requirements the department deems necessary. Failure to meet any requirement of this subrule, in accordance with Chapter 567--43.5(455B) IAC, after the date specified in this paragraph is a treatment technique violation.

b. Maximum Contaminant Levels (MCL or Treatment Technique Requirement) for turbidity. The maximum contaminant levels (treatment technique requirements) for turbidity in drinking water, measured at representative entry point(s) to the distribution system, are as follows:

(1) Conventional filtration treatment or direct filtration.

1. For systems using conventional filtration or direct filtration, the turbidity level of representative samples of a system's filtered water must be less than or equal to 0.5 nephelometric turbidity units (NTU) in at least 95 percent of the measurements taken each month when measured as specified in 41.7(1)"c" and "e".

2. The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU when measured as specified in 41.7(1)"c" and "e".

(2) Slow sand filtration.

1. For systems using slow sand filtration, the turbidity level of representative samples of a system's filtered water must be less than or equal to 1 NTU in at least 95 percent of the measurements taken each month when measured as specified in 41.7(1)"c" and "e".

2. The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU when measured as specified in 41.7(1)"c" and "e".

(3) Diatomaceous earth filtration.

1. For systems using diatomaceous earth filtration, the turbidity level of representative samples of a system's filtered water must be less than or equal to 1 NTU in at least 95 percent of the measurements taken each month when measured as specified in 41.7(1)"c" and "e".

2. The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU when measured as specified in 41.7(1)"e" and "c".

(4) Other filtration technologies. A public water system may use either a filtration technology not listed in paragraphs "b"(1)-"b"(3) of this subrule or a filtration technology listed in paragraphs "b"(1)-"b"(2) of this subrule at a higher turbidity level if it demonstrates to the department through a preliminary report submitted by a registered professional engineer, using pilot plant studies or other means, that the alternative filtration technology in combination with disinfection treatment that meets the requirements of 43.5(2), consistently achieves 99.9 percent removal and/or inactivation of Giardia lamblia cysts and 99.99 percent

removal and/or inactivation of viruses. For a system that uses alternative filtration technology and makes this demonstration the maximum contaminant levels(treatment technique requirements) for turbidity are as follows:

1. The turbidity level of representative samples of a system's filtered water must be less than or equal to 1 NTU in at least 95 percent of the measurements taken each month when measured as specified in 41.7(1)"c" and "e".

2. The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU when measured as specified in 41.7(1)"c" and "e".

c. Monitoring requirements.

(1) Routine turbidity monitoring.

1. Turbidity measurements as required by 43.5(3) must be performed on representative samples of the system's filtered water every four hours (or more frequently) that the system serves water to the public. A public water system may substitute continuous turbidity monitoring for grab sample monitoring if it validates the continuous measurement for accuracy on a regular basis using a calibration protocol approved by the department and audited for compliance during sanitary surveys. Major elements of the protocol shall include but are not limited to: method of calibration, calibration frequency, calibration standards, documentation, data collection and data reporting. For any systems using slow sand filtration or filtration treatment other than conventional treatment, direct filtration, or diatomaceous earth filtration, the department may reduce the sampling frequency to once per day if it determines that less frequent monitoring is sufficient to indicate effective filtration performance. For systems serving 500 or fewer persons, the department may reduce the turbidity sampling frequency to once per day, regardless of the type of filtration treatment used, if the department determines that less frequent monitoring is sufficient to indicate effective filtration performance.

2. A supplier of water serving a population or population equivalent of greater than 100,000 persons shall provide a continuous or rotating cycle turbidity monitoring and recording device or take hourly grab samples to determine compliance with 41.7(1)"b".

(2) Repeat monitoring and reporting. If the results other than results monitored under 41.7(1)"c"(1)2 of a turbidity analysis indicate that the maximum allowable limit has been exceeded, the sampling and measurement shall be confirmed by resampling within one hour. If the repeat sample confirms that the maximum allowable limit has been exceeded, the supplier of water shall report to the department within forty-eight hours. The repeat sample shall be the sample used for the purpose of calculating the monthly average. If the monthly average of the daily samples exceeds the maximum allowable limit, or if the the turbidity level of any representative sample exceeds 5 NTU, the supplier of water shall report to the department and notify the public as directed in 41.5(1) and 41.5(2).

d. Reserved.

e. Analytical methodology. Public water systems shall conduct turbidity analysis in accordance with 43.6(4) and the following analytical method. Measurements for turbidity shall be conducted by a grade III or IV operator or any certified operator under the direct supervision of a grade III of IV operator meeting the requirements of Chapter 567--81 IAC.

(1) Turbidity monitoring shall be conducted in accordance with Method 214A (Nephelometric Method-Nephelometric Turbidity Units), pp. 134-136, as set forth in "Standard Methods", 16th edition.

(2) Reporting. The public water system shall report the results of the turbidity analysis in accordance with 43.7(1)"b"(2) and 43.7(3).

41.7(2) Residual disinfectant.

a. Applicability. Public water supplies which apply chlorine shall monitor, record, and report the concentrations daily in accordance with 43.7(2)"a". In addition, all public water systems that use a surface water source or a ground water source under the direct influence of surface water must provide treatment consisting of disinfection, as specified in 43.5(2), and filtration treatment, as specified in 43.5(3) and shall monitor for the residual disinfectant concentration in both the water entering the distribution system and in the distribution system and shall report the results of that analysis in accordance with 43.7(3).

b. Maximum contaminant levels. Reserved.

c. Monitoring requirements. Public water supplies that use surface water or ground water under the direct influence of surface water shall monitor for the residual disinfectant concentration in both the water entering the distribution system and in water in the distribution system so as to demonstrate compliance with 43.5(2).

(1) Disinfectant residual entering system. Residual disinfectant concentration of the water entering the distribution system shall be monitored continuously, and the lowest value recorded each day, except that if there is a failure in the continuous monitoring equipment, grab sampling every four hours may be conducted in lieu of continuous monitoring, but not to exceed five working days following the failure of the equipment. Systems serving 3,300 or fewer persons may take grab samples in lieu of providing continuous monitoring on an ongoing basis at the frequencies prescribed below:

System size (persons served)	Samples/ day(*)
<500	1
501 to 1,000	2
1,001 to 2,500	3
2,500 to 3,300	4

(*) When more than one grab sample is required/day, the day's samples cannot be taken at the same time. The sampling intervals must be at a minimum of four hour intervals.

If at any time the disinfectant concentration falls below 0.3 mg/l in a system using grab sampling in lieu of continuous monitoring, except for those points on the distribution system that terminate as dead ends or areas that represent low use when compared to usage throughout the rest of the distribution system, the system shall take a grab sample every four hours until the residual disinfectant concentration is equal to or greater than 0.3 mg/l.

(2) Disinfectant residual in system. The residual disinfectant concentration must be measured at least at the same points in the distribution system and at the same time as total coliforms are sampled, as specified in 43.2(1)"c", except that the department may allow a public water system which uses both a surface water source or a ground water source under direct influence of surface water, and a ground water source to take disinfectant residual samples at points other than the total coliform sampling points, if these points are included as a part of the coliform sample site plan meeting the requirements of 41.2(1)"c"(1)1 and the department determines that such points are more representative of treated

(disinfected) water quality within the distribution system. Heterotrophic bacteria, measured as heterotrophic plate count as specified in subparagraph 41.2(3) of this subrule, may be measured in lieu of residual disinfectant concentration.

d. Reserved.

e. Analytical methodology. Measurements for residual disinfectant concentrations must be conducted by a grade III or IV operator or any certified operator under the direct supervision of a grade III or IV operator meeting the requirements of Chapter 567--81 IAC.

(1) Residual disinfectant concentrations for free chlorine and combined chlorine (chloramines) must be measured by Method 408C (Amperometric Titration Method), pp. 303-306, Method 408D (DPD Ferrous Titrimetric Method), pp. 306-309, Method 408E (DPD Colorimetric Method), pp. 309-310, or Method 408F (Leuco Crystal Violet Method), pp. 310-313, as set forth in "Standard Methods", 16th edition. Residual disinfectant concentrations for free chlorine and combined chlorine may also be measured by using DPD colorimetric test kits. Residual disinfectant concentrations for ozone must be measured by the Indigo Method as set forth in Bader, H., Hoigne, J., "Determination of Ozone in Water by the Indigo Method; A Submitted Standard Method"; Ozone Science and Engineering, Vol. 4, pp. 169-176, Pergamon Press Ltd., 1982, or automated methods which are calibrated in reference to the results obtained by the Indigo Method on a regular basis.

Note: The Indigo method has been published in the 17th edition of "Standard Methods", pp. 4-162 - 4-165.; the Iodemetric Method in the 16th edition may not be used.

(2) Residual disinfectant concentrations for chlorine dioxide must be measured by Method 410B (Amperometric Method) or Method 410C (DPD Method) pp. 322-324, as set forth in "Standard Methods", 16th edition.

41.7(3) Temperature.

a. Applicability. Reserved.

b. Maximum contaminant levels. Reserved.

c. Monitoring requirements. Reserved.

d. BAT. Reserved.

e. Analytical methodology. Measurements for temperature must be conducted by a grade III or IV operator or any certified operator under the direct supervision of a grade III or IV operator meeting the requirements of Chapter 567--81 IAC. Temperature shall be determined in compliance with --Method 212 (Temperature), pp. 126-127, as set forth in "Standard Methods", 16th edition.

41.8(4)

a. Applicability. Reserved.

b. Maximum contaminant levels. Reserved.

c. Monitoring requirements. Reserved.

d. BAT. Reserved.

e. Analytical methodology. Measurements for pH measurements must be conducted by a grade III or IV operator or any certified operator under the direct supervision of a grade III or IV operator meeting the requirements of Chapter 567--81 IAC. pH shall be determined in compliance with --Method 423 (pH Value), pp. 429-437, as set forth in "Standard Methods", 16th edition.

ITEM 4. Paragraph 41.5(2)"e" is amended by adding in alphabetical order a new subparagraph of standard language to read as follows:

() Microbiological contaminants (for use when there is a violation of the treatment technique requirements for filtration and disinfection in Chapter 567--43.5(455B) IAC). The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that the presence of microbiological contaminants are a health concern at certain levels of

exposure. If water is inadequately treated, microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than drinking water. EPA has set enforceable requirements for treating drinking water to reduce the risk of these adverse health effects. Treatment such as filtering and disinfecting the water removes or destroys microbiological contaminants. Drinking water which is treated to meet EPA requirements is associated with little or no risk and should be considered safe.

ITEM 5. A new Chapter 567--43(455B) is added to read as follows:

Chapter 43

Water Supplies -- Operation

567--43.1(455B) General information.

ITEM 6. Renumber rule 41.11 as 43.1(1) Emergency actions regarding water supplies. Renumber rule 41.15 as 43.1(2) Prohibition on the use of lead pipes, solder and flux. Renumber rule 41.16 as 43.1(3) Use of noncentralized treatment devices. Renumber rule 41.14(3) as 43.1(4) Cross-connection control.

ITEM 7. Renumber rule 41.6 as 567--43.2(455B) Permits to operate. Renumber rule 41.12 as 567--43.3(455B) Public water supply system construction. Renumber rule 41.13 as 567--43.4(455B) Certification of completion.

ITEM 8. Add a new subrule to read as follows:

567--43.5(455B) Filtration and disinfection.

43.5(1) Applicability/general requirements.

a. These rules apply to both community and noncommunity public water systems. The rules establish criteria under which filtration is required as a treatment technique for public water systems supplied by a surface water source and public water systems supplied by a ground water source under the direct influence of surface water. In addition, these rules establish treatment technique requirements in lieu of maximum contaminant levels for *Giardia lamblia, heterotrophic bacteria, Legionella, viruses and* turbidity. Each public water system with a surface water source or a ground water source under the direct influence of surface water must provide treatment of that source water which complies with these treatment technique requirements. The treatment technique requirements consist of installing and properly operating water treatment processes which reliably achieve:

(1) At least 99.9 percent (3-log) removal and/or inactivation of Giardia *lamblia cysts between a point where the raw water is not subject* to recontamination by surface water runoff and a point downstream before or at the first customer; and

(2) At least 99.99 percent (4-log) removal and/or inactivation of viruses between a point where the raw water is not subject to recontamination by surface water runoff and a point downstream before or at the first customer.

b. Criteria for identification of ground water under the direct influence of surface water. "Ground water under the direct influence of surface water" means any water beneath the surface of the ground with: (1) significant occurrence of insects or other macroorganisms, algae, or large-diameter pathogens such as Giardia lamblia; or, (2) significant and relatively rapid shifts in water characteristics such as turbidity (particulate content), temperature, conductivity, or pH which closely correlate to climatological or surface water conditions. Direct influence

must be determined for individual sources in accordance with criteria established by the department. The department determination of direct influence may be based on site-specific measurements of water quality and/or documentation of well construction characteristics and geology with field evaluation. Only surface water and subsurface water sources that are at risk to the contamination from Giardia cysts are subject to the requirements of this rule. Ground water sources shall not be subject to this rule. The evaluation process shall be used to delineate between surface water, ground water under the direct influence of surface water and ground water. The identification of a source as surface water and ground water under the direct influence of surface water shall be determined for an individual source, by the department, in accordance with the following criteria. The public water supply shall provide to the department, that information necessary to make the determination. The evaluation process will involve one or more of the following steps:

(1) Preliminary review. The department shall conduct a preliminary evaluation of information on the source provided by the public water supply to determine if the source is an obvious surface water (i.e. pond, lake, stream, etc) or groundwater under the direct influence of surface water. The source shall be evaluated during that period of highest susceptibility to influence from surface water. The preliminary evaluation may include a review of surveys, reports, geological information of the area, physical properties of the source, and a review of departmental and public water system records. If the source is identified as a surface water no additional evaluation shall be conducted. If the source is a ground water and identified as a deep well, it shall be classified as a ground water not under the direct influence of surface water and no additional evaluation shall be conducted, unless through direct knowledge or documentation the source does not meet the requirements of 43.5(1)"b"(2). If the source is a shallow well, the source shall be evaluated in accordance with 43.5(1)"b"(2). If the source is a spring, infiltration gallery, Ranney well, or any other subsurface source it shall be evaluated in accordance with 43.5(1)"b(3).

(2) Well source evaluation. Shallow wells greater than 50 feet in lateral distance from a surface water source shall be evaluated for direct influence of surface water through a review of departmental or public water system files in accordance with 43.5(1)"b"(2)1i and 43.5(1)"b"(2)2. Sources that meet the criteria shall be considered to be not under the direct influence of surface water. No additional evaluation will be required. Shallow wells 50 feet or less in lateral distance from a surface water shall be in accordance with 43.5(1)"b"(3) and (4).

1. Well construction criteria. The well shall be so constructed so as to include:

i. A surface sanitary seal using bentonite clay, concrete, or other acceptable material.

ii. The well casing shall penetrate a confining bed.

iii. The well casing shall be perforated or screened only below a confining bed.

2. Water quality criteria. Water quality records shall indicate:

i. No record of total coliform or fecal coliform contamination in untreated samples collected over the past three years,

ii. No history of turbidity problems associated with the well, other than turbidity as a result of inorganic chemical precipitates.

iii. No history of known or suspected outbreak of Giardia or other pathogenic organisms associated with surface water (e.g. Cryptosporidium) which has been attributed to well.

3. Other available data. If data on particulate matter analysis of the well are available, there shall be no evidence of particulate matter present that is associated with surface water. If information on turbidity or temperature monitoring of the well and nearby surface water is available, there shall be no data on the source which correlates with that of a nearby surface water.

4. Wells that do not meet all the requirements listed shall require further evaluation in accordance with 43.5(1)"b" (3) and (4).

(3) Formal evaluation. The evaluation shall be conducted by the department or registered engineer at the direction of the public water supply. The evaluation shall include:

1. Complete file review. In addition to the information gathered in 43.5(1)"b"(1), the complete file review shall consider but not be limited to: design and construction details; evidence of direct surface water contamination; water quality analysis; indications of waterborne disease outbreaks; operational procedures; and customer complaints regarding water quality or water-related infectious illness. Sources other than a well source shall be evaluated in a like manner to include a field survey.

2. Field survey. A field survey shall substantiate findings of the complete file review and determine if the source is at risk to pathogens from direct surface water influence. The field survey shall examine the following criteria for evidence that surface water enters the source through defects in the source which include but are not limited to: a lack of a surface seal on wells, infiltration gallery laterals exposed to surface water, springs open to the atmosphere, surface runoff entering a spring or other collector, and distances to obvious surface water sources.

A report summarizing the findings of the complete file review and field survey shall be submitted to the department for final review and classification of the source. If the complete file review or field survey demonstrates conclusively that the source is subject to the direct surface water influence, the source shall be classified as under the direct influence of surface water. Either method or both may be used to demonstrate that the source is a surface water or ground water under the direct influence of ground water. If the findings do not demonstrate conclusive evidence of direct influence of surface water, the analysis outlined in 43.5(1)"b"(4) should be conducted.

(4) Particular analysis and physical properties evaluation.

1. Surface water indicators. Particulate analysis shall be conducted to identify organisms which only occur in surface waters as opposed to ground waters, and whose presence in a ground water would indicate the direct influence of surface water.

i. Identification of a Giardia cyst, live diatoms, and bluegreen, green, or other chloroplast containing algae in any source water shall be considered evidence of direct surface water influence.

ii. Rotifers and insect parts are indicators of surface water. Without knowledge of which species is present, the finding of rotifers indicates that the source is either directly influenced by surface water, or the water contains organic matter sufficient to support the growth of rotifers. Insects or insect parts shall be considered strong evidence of surface water influence, if not direct evidence.

iii. The presence of coccidia (e.g. Cryptosporidium) in the source water is considered a good indicator of direct influence of surface water. Other macroorganisms (>7 um) which are parasitic to animals and fish, such as but are not limited to, helminths (e.g. tape worm cysts), ascaris, and *Diphyllobothrium*, shall be considered as indicators of direct influence of surface water.

2. Physical properties. Turbidity, temperature, pH and conductivity provide supportive, but less direct, evidence of direct influence of surface water. Turbidity fluctuations of greater than 0.5 - 1 NTU over the course of a year may be indicative of direct influence of surface water. Temperature fluctuations may also indicate surface water influence. Changes in other chemical parameters such as pH, conductivity, hardness, etc. may also give an indirect indication of influence by nearby surface water.

c. A public water system using a surface water source or a ground water source under the direct influence of surface water is considered to be in compliance with the requirements of 43.5(1) if it meets the filtration requirements in 43.5(3) and the disinfection requirements in 43.5(2) in accordance with the effective dates specified within the respective subrules.

d. Each public water system using a surface water source or a ground water source under the direct influence of surface water must be operated by a certified operator who meets the requirements of IAC 567--81(455B).

43.5(2) Disinfection. All public water systems using surface water or ground water under the direct influence of surface water in whole or in part shall be required to disinfect. A system already providing disinfection must meet the requirements of this rule upon the effective date of this rule. A system that uses a ground water source under the direct influence of surface water must provide disinfection treatment as specified in this subrule by December 30, 1991, or 18 months after the department determines that the ground water source is under the influence of surface water, which ever is later. If the department has determined that filtration is required the system must comply with any interim disinfection requirements the department deems necessary before filtration is installed. Failure to meet any requirement of this subrule after the applicable date specified in this subrule is a treatment technique violation. The disinfection requirements are as follows:

a. The disinfection treatment must be sufficient to ensure that the total treatment processes of that system achieve at least 99.9 percent (3-log) inactivation and/or removal of Giardia lamblia cysts and at least 99.99 percent (4-log) inactivation and/or removal of viruses, acceptable to the department.

b. The disinfection system must include: (1) redundant components, including an auxiliary power supply with automatic start-up and alarm to ensure that disinfectant application is maintained continuously while water is being delivered to the distribution system, or (2) automatic shut-off of delivery of water to the distribution system whenever there is less than 0.3 mg/l of residual disinfectant concentration in the water. If the department determines that automatic shut-off would cause unreasonable risk to health or interfere with fire protection, the system must comply with subparagraph "b"(1) of this paragraph.

c. Disinfectant residual entering system. The residual disinfectant concentration in the water entering the distribution system, measured as specified in 41.7(2)"c" and "e", cannot be less than 0.3 mg/l for more than 4 hours, except for those points on the distribution system that terminate as dead ends or areas that represent low use when compared to usage throughout the rest of the distribution system.

d. (1) Disinfectant residual in the system. The residual disinfectant concentration in the distribution system, measured as total chlorine, combined chlorine, or chlorine dioxide, as specified in 41.7(2)"c" and "e", cannot be undetectable in more than 5 percent of the samples each month, for any two consecutive months that the system serves water to the public. Water in the distribution system with a heterotrophic bacteria concentration

less than or equal to 500/ml, measured as heterotrophic plate count (HPC) as specified in 41.2(3)"e", is deemed to have a detectable disinfectant residual for purposes of determining compliance with this requirement. Therefore, the value "V" in the following formula cannot exceed 5 percent in one month, for any two consecutive months.

$$V = \frac{c+d+e}{a+b} \times 100$$

where:

a = number of instances where the residual disinfectant concentration is measured;

b = number of instances where the residual disinfectant concentration is not measured but heterotrophic bacteria plate count (HPC) is measured;

c = number of instances where the residual disinfectant concentration is measured but not detected and no HPC is measured;

d = number of instances where the residual disinfectant concentration is measured but not detected and where the HPC is >500/ml; and

e = number of instances where the residual disinfectant concentration is not measured and HPC is >500/ml.

43.5(3) Filtration. A public water system that uses a surface water source or a ground water source under the direct influence of surface water must provide treatment consisting of both disinfection, as specified in 43.5(2), and filtration treatment which complies with the turbidity requirements of subrule 41.7(1). Failure to meet any requirements of the referenced subrules after the dates specified is a treatment technique violation.

43.5(4) Analytical and monitoring requirements.

a. Analytical requirements. Only the analytical method(s) specified in this paragraph, or otherwise approved by the department, may be used to demonstrate compliance with the requirements of 43.5(2) and 43.5(3). Measurements for pH, temperature, turbidity, and residual disinfectant concentrations must be conducted by a grade III or IV operator or any certified operator under the direct supervision of a grade III of IV operator meeting the requirements of Chapter 567--81 IAC. Measurements for heterotrophic plate count bacteria must be conducted by a laboratory certified by the department to do such analysis. Until laboratory certification criteria are developed for the analysis of heterotrophic plate count bacteria, any laboratory certified for total coliform analysis by department is certified for heterotrophic plate count bacteria analysis. The procedures shall be performed in accordance with Chapter 567--41(455B) IAC and the referenced publications as listed below.

(1) Heterotrophic plate count--Chapter 567--41.2(30) IAC
(2) Turbidity--Chapter 567--41.7(1) IAC
(3) Residual disinfectant concentration--Chapter 567--41.7(2) IAC
(4) Temperature--Chapter 567--41.7(3) IAC
(5) pH--Chapter 567--41.7(4) IAC.

b. Monitoring requirements. A public water system that uses a surface water source or a ground water source under the influence of surface water

must monitor in accordance with this paragraph or some interim requirements required by the department, until filtration is installed.

(1) Turbidity measurements to demonstrate compliance with 43.5(3) shall be performed in accordance with 41.7(1).

(2) Residual disinfectant concentration of the water entering the distribution system to demonstrate compliance with 43.5(2)"d" shall be monitored in accordance with 41.7(2)"c"(1).

(3) The residual disinfectant concentration of the water in the distribution system to demonstrate compliance with 43.5(2)"d" shall be monitored in accordance with 41.7(2)"c"(2).

(4) Reporting and response to violation. Public water supplies shall report the results of routine monitoring required to demonstrate compliance with 567--43.5(455B) and and treatment technique violations as follows.

1. Each system, upon discovering that a waterborne disease outbreak potentially attributable to that water system has occurred, must report that occurrence to the department as soon as possible, but no later than by the end of the next business day.

2. If at any time the turbidity exceeds 5 NTU, the system must inform the department as soon as possible, but no later than the end of the next business day.

3. If at any time the residual falls below 0.2 mg/l in the water entering the distribution system, the system must notify the department as soon as possible, but no later than by the end of the next business day. The system also must notify the department by the end of the next business day whether or not the residual was restored to at least 0.2 mg/l within 4 hours.

4. Routine monitoring results shall provided as part of the monthly operation reports in accordance with 43.7(3)

ITEM 9. Create a new rule section.

567--43.6(455B) Disinfectant and disinfectant byproducts. Reserved.

ITEM 10. Renumber 567--41.14(1) and (2), Operation and maintenance for public water supplies, as 567--43.7(1) and (2).

ITEM 11. Add the following language pertaining to reporting requirements for filtration and disinfection as 567--43.7"c".

43.7(3) Reporting and record keeping requirements for systems using surface water and ground water under the direct influence of surface water. In addition to the monitoring requirements required by 43.7(1) and 43.7(2), a public water system that uses a surface water source or a ground water source under the direct influence of surface water must report monthly to the department the information specified in this paragraph beginning December 30, 1991, or when filtration is installed, whichever is later.

a. Turbidity measurements as required by 41.7(1) and 43.5(3) must be reported within 10 days after the end of each month the system serves water to the public. Information that must be reported includes:

(1) The total number of filtered water turbidity measurements taken during the month.

(2) The number and percentage of filtered water turbidity measurements taken during the month which are less than or equal to the turbidity limits specified in 41.7(1)"b" for the filtration technology being used.

(3) The date and value of any turbidity measurements taken during the month which exceed 5 NTU.

b. Disinfection information specified in 41.7(2) and 43.5(2) must be reported to the department within 10 days after the end of each month the system serves water to the public. Information that must be reported includes:

(1) For each day, the lowest measurement of residual disinfectant concentration in mg/l in water entering the distribution system.

(2) The date and duration of each period when the residual disinfectant concentration in water entering the distribution system fell below 0.3 mg/l and when the department was notified of the occurrence.

(3) The following information on the samples taken in the distribution system in conjunction with total coliform monitoring pursuant to 41.2(1)"c":

1. Number of instances where the residual disinfectant concentration is measured;
2. Number of instances where the residual disinfectant concentration is not measured but heterotrophic bacteria plate count (HPC) is measured;
3. Number of instances where the residual disinfectant concentration is measured but not detected and no HPC is measured;
4. Number of instances where no residual disinfectant concentration is detected and where HPC is >500/ml;
5. Number of instances where the residual disinfectant concentration is not measured and HPC is >500/ml; and,
6. For the current and previous month the system serves water to the public, the value of "V" in the following formula:

$$V = \frac{c+d+e}{a+b} \times 100$$

where
a=the value in subparagraph "b"(3)1 of this paragraph,
b=the value in subparagraph "b"(3)2 of this paragraph,
c=the value in subparagraph "b"(3)3 of this paragraph,
d=the value in subparagraph "b"(3)4 of this paragraph, and
e=the value in subparagraph "b"(3)5 of this paragraph.

_____
Date

_____
Larry J. Wilson, Director

(A:EP40A.MIN/123-90/pg)

Mr. Stokes gave a detailed explanation of the rules.

Motion was made by Margaret Prahl to approve Notice of Intended Action--Chapters 40, 41, and 43, Water Supply. Seconded by Rozanne King. Motion carried unanimously.

PROPOSED RULE--CHAPTER 63, CBOD PERMIT LIMITS FOR INDUSTRY

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The proposed rule would establish a procedure for developing limits for CBOD (carbonaceous biochemical oxygen demand) in NPDES permits for some industrial facilities in place of limits for BOD (biochemical oxygen demand). For certain industrial categories the federal effluent standards limit the discharge of BOD which is expected to measure primarily the oxygen needed to degrade organic (carbonaceous) materials in the wastewater. However, when significant nitrifying bacteria are present in the wastewater the BOD test may measure both carbonaceous oxygen demand and nitrogenous oxygen demand. In the CBOD test the nitrifying bacteria in the sample are suppressed through the use of a chemical inhibitor and therefore only the carbonaceous oxygen demand is measured. The CBOD test is a more reliable measure of treatment plant operation and effluent quality. When it is important to limit NOD to preserve water quality, measurement of ammonia nitrogen is the more appropriate test.

ENVIRONMENTAL PROTECTION COMMISSION [567]
Notice of Intended Action

Pursuant to the authority of Iowa Code sections 455B.105 and 455B.173, the Environmental Protection Commission gives notice of intended action to amend 567--Chapter 62, "Effluent and Pretreatment Standards: Other Effluent Limits or Prohibitions," Iowa Administrative Code.

The purpose of the proposed rulemaking is to provide industries subject to federal effluent standards for biochemical oxygen demand (BOD5) the opportunity to obtain alternative effluent limitations for carbonaceous biochemical oxygen demand (CBOD5).

For certain industrial categories the federal effluent standards promulgated under sections 301 and 306 of the Clean Water Act and adopted by reference in 567--62.4 limit the discharge of BOD5. The BOD5 test is expected to measure primarily the oxygen demand that may be exerted from carbonaceous (organic) materials in the wastewater and is not expected to measure the nitrogenous demand which is usually exerted after five days. However, when substantial nitrifying bacteria are present in the wastewater, significant nitrogenous oxygen demand (NOD) may be exerted and the BOD5 test may not provide a good measure of plant effluent quality.

The CBOD5 test prevents the oxidation of nitrogenous materials through use of an inhibitor that blocks the conversion of ammonia to nitrite and thus measures only the carbonaceous oxygen demand of the wastewater. For this reason, CBOD5 is a more reliable measure of treatment plant efficiency and effluent quality. When NOD is important to preserve water quality, measurement of ammonia is the more appropriate test.

Any interested person may submit written suggestions or comments on the proposed rule changes through _____. Such written materials should be directed to Steve Williams, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand Avenue, Des Moines, Iowa 50319-0034, Fax # 515/281-8895. Persons who have questions may contact Steve Williams at 515/281-8884. Persons are also invited to present oral or written comments at a public hearing which will be held on _____ at _____ a.m. in conference room 5 West, Wallace State Office Building, 900 East Grand, Des Moines, Iowa.

These rules may have an impact upon small businesses.

Copies of these proposed rules may be obtained from Sarah Detmer, Records Center, Iowa Department of Natural Resources, Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319-0034.

These rules are intended to implement Iowa Code Chapter 455B, Division III, Part I.

Renumber rule 62.9(455B) as 62.10(455B). Add new rule 62.9(455B) as follows:

62.9(455B) Special considerations for industries.

For some industries the federal effluent standards promulgated under sections 301 and 306 of the Act (33 U.S.C. 1311 and 1316) and adopted by reference in 567--62.4 limit the discharge of biochemical oxygen demand (BOD5). The department may establish an effluent limitation for carbonaceous biochemical oxygen demand (CBOD5) instead of a BOD5 limitation in accordance with the following:

(a) A CBOD5 limitation will be considered case-by-case following a written request. At least one 24-hour composite effluent sample must be collected each week for three consecutive months between June and September. Each sample must be analyzed for both BOD5 and CBOD5.

(b) The average of the CBOD5 data will be divided by the average BOD5 data to establish a CBOD5/BOD5 ratio. This ratio will be multiplied by the BOD5 limitation to derive the CBOD5 limitation.

(c) Only data where the effluent BOD5 complies with the federal standard will be used in determining CBOD5 effluent limitations.

(d) A CBOD5 effluent limitation must be at least as stringent as the BOD5 effluent limitation.

Mr. Stokes explained the proposed rules. He stated that about 7 years ago EPA changed from BOD to CBOD for municipal wastewater dischargers. This being the mechanism to look at and the criteria to base permits on and the premise upon which to monitor and report. The department has just set water quality standards to place effluent limits based upon ammonia. Federal standards have not changed for the industrial sector and they are still expressed as BOD5 for industry. Mr. Stokes stated that the department was led to believe that there was the possibility of a state setting CBOD standards in replacement of BOD standards for certain classes of industry. In response to a letter from DNR asking EPA if this could be done, EPA answered in the affirmative but noted that there is a certain methodology that has to be followed. Mr. Stokes distributed copies of the EPA correspondence dated December 18, 1987. He related that staff has gone about developing rules for CBOD standards, and then last Friday, late in the afternoon the department received a fax from EPA stating that DNR cannot set a CBOD standard. He added that the fax indicated that a CBOD standard could possibly be set, but people would still have to test for BOD as well as CBOD and permit limits would still have to be based on that. Mr. Stokes distributed a copy of the proposed rules and related that, in view of the latest correspondence from EPA, it may be some time, if ever, before the rule is brought back before the Commission.

This was an informational item; no action was required.

NOTICE OF INTENDED ACTION--CHAPTERS 69 AND 121, LAND APPLICATION OF MUNICIPAL SEWAGE SLUDGE AND OTHER WASTES

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The commission will be provided copies of proposed changes to Chapter 69 and 121 which will combine land application procedures for municipal sewage sludge and other wastes. The current rules have been reviewed, and the more restrictive rules have been incorporated into the proposed Notice of Intended Action.

The current rules in chapter 69 have been amended to change a specific subrule reference in chapter 121. The amended version will give a general reference to the entire chapter 121.

The new subrule 121.3(1) combines the previous rules for land application of municipal sewage sludge and other wastes.

Subrule 121.3(1) paragraph "a" restricts land application to 2 tons per acre per year for all wastes. The application rate may be reduced if the department determines that the waste would provide nutrient levels above crop nutrient requirements or heavy metal concentrations which may be detrimental to crop production or hazardous to human health. The waste would also be restricted to soils classified as acceptable throughout the top five (5) feet of soil profile.

The soil pH must be maintained between 6.0 and 7.5. The waste shall be incorporated within the first 48 hours after land application. The metals loading has been combined from both municipal sewage sludge and other waste current loading tables. The most restrictive metal loading level was retained in each case. If the waste possesses any other toxic characteristics the toxic constituents cannot be in excess of levels posing a threat to human, animal, or plant life.

The application of nitrogen available from the waste has been limited to crop uptake. The application of phosphorous and potassium is limited to agronomic application rates for the site and crops involved. The sodium ratio of the soil cannot be grater than 12.

All waste which may contain pathogens shall be treated prior to land application. Municipal sewage sludge shall be treated as stated in 567--69.14d 1 & 2 to reduce pathogens. Other pathogen containing wastes shall be treated by methods approved by the department prior to land application.

Wastes which have direct process stream contact with petroleum products, organic solvents, pesticides, pharmaceuticals, polychlorinated bi-phenyls (PCBs) cannot be land applied

without a permit. Wastes that have the potential to release the previously mentioned compounds cannot be land applied without a permit. Wastes which result from metals cleaning, finishing, working or lubricating must also be land applied under a permit.

The waste must degrade rapidly enough to go unnoticed in a visual sampling 2 years after land application.

The waste shall not be land applied within 200 feet of an occupied residence nor within 500 feet of a well.

A generator who intends to dispose of their waste by land application shall analyze the waste to determine if any toxic substances are present and if it meets the criteria of this rule, and notify the department if any toxins are found. The analyses shall be performed in accordance with methods described in "Methods for Chemical Analysis of Water and Wastes," 1974 (US EPA), for "Standard Methods for the Examination of Water and Waste Water," 15th Edition, 1981, or "Test Methods for Evaluating Solid Wastes, Physical and Chemical Methods, EPA SW-846, Second Edition, 1982." Alternate methods may be substituted only if acceptable to the department.

All generators wishing to land apply their waste shall establish and maintain in writing a long range program for land application of their waste. The program shall be developed for a minimum of 5 years and shall be updated annually. The program will be available at the facility for inspection by the department. As a minimum the program shall include the following information in detail for the next calendar year and in general terms for the following 4 years. The plan shall include:

1. An outline of the waste sampling schedule and procedures to be followed to ensure compliance with this subrule.
2. A determination of the amount of land required to apply the waste.
3. An identification of the land and waste application methods.
4. The names of the owners and operators of all land to be used for waste disposal ,and identification of any legal arrangements made relative to land application of the waste.
5. An overall schedule for the disposal of the waste.
6. A determination of the types and capacities of equipment required to dispose of the waste.
7. A determination of the volumes and types of storage facilities required to allow waste disposal to be conducted in accordance with the waste disposal program.
8. A plan to construct or obtain additional waste storage, handling or disposal facilities which are required by the waste disposal program.

If waste is supplied to other persons for the purpose of land application, the generating facility shall inform them of the applicable requirements of the waste disposal program and this subrule. If the generating facility determines that a person being supplied waste for land application is not complying with applicable requirements, the generating facility shall attempt to work with them to achieve compliance. If subsequent compliance cannot be achieved, the generating facility shall not supply additional waste to the person.

If waste is applied to land subject to use by the general public (e.g. golf courses, parks), public access shall be restricted for 2 months after application. Waste cannot be applied to areas where direct body contact with soil is likely (e.g. school yards, playgrounds, picnic areas). Waste cannot be applied to land for the commercial production of human consumption food crops.

The generating facility shall notify the department in writing prior to land application.

The commission is asked to approve a Notice of Intended Action at this time.

ENVIRONMENTAL PROTECTION COMMISSION (567)
Notice of Intended Action

Pursuant to the authority of Iowa Code section 455B.304 the Environmental Protection Commission gives Notice of Intended Action to amend 567--chapter 69 "On-site Wastewater Treatment and Disposal Systems", and chapter 121 "Land Application of Wastes", Iowa Administrative Code.

The Commission proposes to adopt rule amendments combining land application restrictions for municipal sewage sludge and other solid wastes. The rules in chapter 69 shall be amended to change a reference to chapter 121. The rules in chapter 121 will be replaced with a new combined set of rules. The current rules have been combined and the stricter rule has been retained. The current subrules in chapter 121 referenced in the Notice may be renumbered in the future due to rule changes currently in progress for petroleum contaminated soil. A comparison document showing the changes in the land application rules may be obtained from the department. The comparison document was presented to the Environmental Protection Commission at their April 1990 meeting.

Written comments may be directed to Gayle Farrell, 900 East Grand, Des Moines, Iowa 50319, FAX number 515/281-8895 through July 15, 1990. Interested persons may also provide oral comments at public hearings to be held at the following locations and times: Atlantic, Municipal Utilities Board Room, 10 a.m., July 9, 1990; Iowa City, Oakdale Auditorium, 10 a.m., July 10, 1990; Des Moines, Wallace Building, Conference Room 4 West, 10 a.m., July 11, 1990.

These amendments are intended to implement Iowa Code section 455B.304, 455B.173, and 455E.9.

These amendments may impact small businesses.

The following amendments are proposed.

Item 1. Amend subrule 567-69.14(1) as follows:

c. Land application in accordance with the following requirements:

(1) Land application of stabilized septage shall be in accordance with ~~121.3(2) of these rules.~~ Chapter 567--121, Iowa Administrative Code.

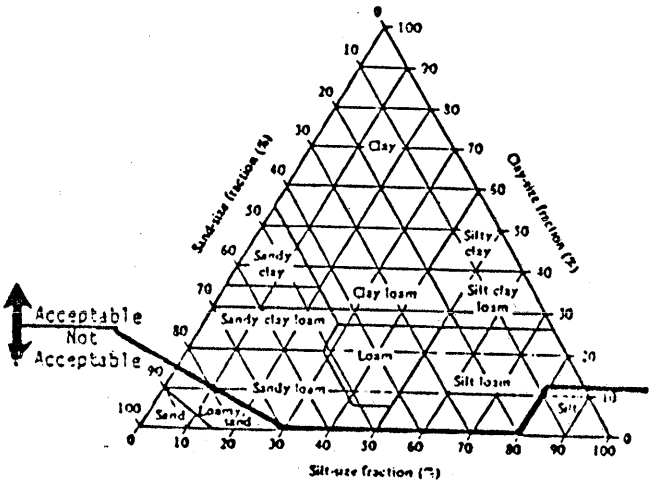
Item 2. Amend subrule 567-121.3 by deleting current 121.3(1) and 121.3(2). Replace with the following:

567-121.3(1)(455B)(455E) Municipal sewage sludge and other solid wastes. Municipal sewage sludge from a publicly owned treatment works and other solid wastes (other than petroleum contaminated soil) may be land applied without permit if the land application does not violate the following:

a. Land application of municipal sewage sludge and other solid waste shall be conducted in accordance with the following criteria:

1. The maximum application rate shall not exceed two (2) tons per acre per year, measured on a dry weight basis. The maximum application rate shall be reduced if soil tests indicate to the director that a two (2) ton per acre per year rate would provide nutrient levels significantly in excess of crop nutrient requirements or would provide heavy metals concentrations in the soil at levels which may be detrimental to crop production or hazardous to human health.

2. The sludge or solid waste shall be applied only to soils classified as acceptable throughout the top five (5) feet of soil profile. The acceptability of a soil shall be determined using the following chart based on U.S.D.A. soil classifications.



U.S.D.A. textural classification chart. Sand size particles 2-0.05 mm, silt-size particles, 0.05-0.002 mm; and clay-size particles, less than 0.002 mm.

3. Land application sites shall have soil pH maintained between 6.0 and 7.5.

4. The waste shall be incorporated into the site soils within forty-eight hours (48) of land application.

b. The waste shall not be land applied or made available for land application if the waste contains constituents in excess of the levels specified below.

Constituents	Levels
Arsenic (As)	50 mg/kg
Barium (Ba)	340 mg/kg
Cadmium (Cd)	8 mg/kg
Chromium (Cr)	1,000 mg/kg
Copper (Cu)	200 mg/kg
Cyanides	.7 mg/kg
Fluorides	680 mg/kg
Lead (Pb)	800 mg/kg
Mercury (Hg)	10 mg/kg
Nickel (Ni)	200 mg/kg
Phenols	3.4 mg/kg
Selenium (Se)	3.4 mg/kg
Silver (Ag)	1.7 mg/kg
Zinc (Zn)	400 mg/kg

If the waste has other toxic constituents, the toxic constituents shall not be in excess of levels where there is a threat to human, animal, or plant life as determined by the director.

c. Macro-nutrients.
(1) The application of nitrogen available from the waste and any other sources does not exceed the nitrogen needs of the vegetation to be grown on the site over the next year, and
(2) The total application of phosphorous and pottasium does not exceed the acceptable agronomic application rates for the site and crops involved.

d. The waste does not have a sodium absorption ratio greater than 12.

e. If land applying municipal sewage sludge , the sludge shall be treated to reduce pathogen content (as stated in 567--69.14d 1 & 2 IAC) prior to land application. If land applying other types of wastes containing pathogens, the waste must be treated to reduce pathogen content by methods approved by the department prior to land application.

f. The waste does not contain a waste having direct process stream contact with the following listed organics: Petroleum products, organic solvents, pesticides, pharmaceuticals, polychlorinated bi-phenyls (PCBs). The waste does not originate from a process which may release the previously mentioned compounds.

g. The waste does not originate from metals cleaning, finishing, working or lubricating operations.

h. Assimilation capabilities. The waste would not be readily present in a visual analysis of a random sample collected two (2) years following application.

i. General public health or nuisance aspects. The waste is not putrescible, or is incorporated (or otherwise managed) to prevent runoff and odor problems.

j. The waste does not contain volatile constituents in such quantities that nuisance conditions may be produced.

k. Separation distance. Waste shall not be applied within 200 feet of an occupied residence nor within 500 feet of a well.

l. Operating requirements. A generator who intends to dispose of its waste by land application shall:

(1) Analyze the waste to determine if any sources exist which may contribute significant quantities of potentially hazardous chemicals or other toxic substances. If any are found, the generator shall inform the department of their presence and shall analyze the waste for chemicals or substances in accordance with guidelines provided by the department.

(2) Sample and analyze the waste to determine whether it meets the criteria in 121.3(1).

(3) Collect and preserve samples in a manner and frequency approved by the director and intended to assure that the sampling results are representative of the waste disposed.

(4) Analyses shall be performed at a laboratory approved by the university hygienic laboratory. All analyses shall be performed in accordance with methods described in "Methods for Chemical Analysis of Water and Wastes." 1974 (US EPA) for "Standard Methods for the Examination of Water and Waste Water," 15th Edition, 1981, or "Test Methods for Evaluating Solid Wastes, Physical and Chemical Methods, EPA SW-846, Second Edition, 1982." Alternate methods may be substituted only if acceptable to the university hygienic laboratory and approved by the director.

m. Land application program. All generators wishing to land apply their waste shall establish and maintain in writing a long range program for land application of its waste. This program shall be developed for a minimum period of five (5) years and shall be updated annually. A copy of this program shall be available at the facility for inspection by the department. As a minimum this program shall contain the following information in detail for the next calendar year and in general terms for the following four (4) years. The plan shall include but not be limited to the following:

(1) An outline of the waste sampling schedule and procedures which will be followed to assure that the waste being applied to land continues to meet the criteria in 121.3(1).

(2) A determination of the amount of land required to allow disposal to be conducted in accordance with the requirements of 121.3(1).

(3) An identification of the land and waste application methods which will be used to dispose of the waste. Those areas and application methods shall be selected as necessary to assure that land application can be conducted in accordance with the land application criteria in 121.3(1)

(4) The names of the owners and operators of all land to be used for waste disposal, and identification of any legal arrangements made relative to use of these areas. The programs should also outline any restrictions or special conditions which exist regarding use of these areas for waste disposal.

(5) An overall schedule for the disposal of the waste. This schedule should indicate the areas being used, the time of year that disposal on each area will be conducted, and the proposed application rates for each area.

(6) A determination of the types and capacities of the equipment required to dispose of the waste in accordance with the developed disposal schedule. The program shall also outline how the required disposal equipment will be made available and who will be responsible for conducting land disposal operations.

(7) A determination of the volumes and types of storage and handling facilities required to allow waste disposal to be conducted in accordance with the waste disposal schedule. The program shall also outline how any required additional waste storage or handling facilities will be provided.

(8) A plan to construct or obtain any additional waste storage, handling or disposal facilities or equipment which are required by the waste disposal program.

n. Other requirements.

(1) If the waste is being supplied to other persons for land application, the generating facility shall inform them of the applicable requirements of the waste disposal program, 101.3(2) and 121.3(1).

(2) If the generating facility determines that a person being supplied waste for land application is not complying with applicable requirements of the waste disposal program or the land application criteria, the generating facility shall attempt to work with them to obtain compliance with the requirements. If subsequent compliance cannot be achieved, the generating facility shall not supply additional waste to the person.

(3) The generating facility must inform all persons involved in waste disposal operations of the potential health hazards associated with waste disposal, including informing them of the cautions and recommended practices which should be followed to minimize these hazards.

(4) The generating facility shall maintain records of sample analysis and waste disposal operations.

(5) If waste is applied to land subject to use by the general public (e.g., golf courses, parks), public access to the waste application site shall be restricted for a period of two (2) months after waste application. In no case shall waste be applied to areas where direct body contact with the

soil is likely (e.g., school yards, playground areas, picnic areas).

(6) Waste shall not be applied to land for the commercial production of human consumption food crops.

o. Notification. Before opening a disposal site the department shall be notified in writing of the location of the disposal operation. This notice shall also contain the legal description of the site, the landowner, the responsible official, the quantities and type of waste (including chemical analyses which the director may require to adequately define the waste).

Mr. Stokes stated that these rules came before the Commission due to concern from individuals about the differences between industrial and municipal sludge application requirements. Mr. Stokes distributed copies of the proposed rules and explained an error on page 2, in the numbers shown in the list of Constituents and Levels. He related that Cadmium should be 15 mg/kg rather than 8 mg/kg; Copper should be 1000 mg/kg rather than 200 mg/kg; Lead should be 1000 mg/kg rather than 800 mg/kg; and Zinc should be 2000 mg/kg rather than 400 mg/kg. He further explained that the rules could be approved with the erroneous numbers being changed to the correct numbers, or action could be delayed until next month to allow staff to fine tune the rule.

APPOINTMENT - TED PAYSEUR

Ted Payseur, Iowa Water Pollution Control Association, distributed hand-outs showing numerical errors explained by Mr. Stokes. He noted that it also shows where they are heading in terms with EPA. Mr. Payseur stated that they are very much in favor of the Commission tidying up the industrial rules. He added that it has been a travesty that there was such a difference over the years, including not having soil profile content. He explained Table 2 showing Cumulative Pollutant Loading Rates. Mr. Payseur stated that what EPA is proposing is 70 to 80 pages of regulations published in the Federal Register in February, 1989, with hopes of having it passed by August, 1989. It was sent back to committee and public hearing and they are hoping to have new regulations in place by this fall. He pointed out that the third column on his hand-out is significantly higher than the DNR's recommendation, and he encouraged the Commission to "stand their guns" on most of them. Mr. Payseur stated that he would encourage DNR to look at crop value in terms of issuing high rate permits.

APPOINTMENT - KARLTON FULLENWORTH

Karlton Fullenworth, farmer, Storm Lake, stated that he does not object to the statements on the materials but he does object with allowing any extra application over 2-tons per acre. He added that he would hope the Commission will send the rules to public comment and "keep the ball rolling." Mr. Fullenworth presented Chairperson Mohr with a letter and resolution from the Lakeside City Council.

Chairperson Mohr read the following letter and resolution from Roger Botine, Mayor, City of Lakeside:

TO: Environmental Protection Commission
RE: The proposed change in Industrial Sludge Disposal regulation submitted by Allen Stokes

"The Lakeside City Council would appreciate the support of the Commission in the proposed change in regulation to eliminate the inequities between Municipal and Industrial sludge application.

The issue is of great concern to the City Council and to the residents of Lakeside. The work of the local Citizens Action Committee in bringing this to the attention of the EPA should be commended.

Again we would ask for your support for the change in regulations. We feel this this matter requires your immediate attention. A formal resolution of the council is enclosed supporting this opinion.

Thank you for your consideration."

RESOLUTION

A resolution concerning protection of the quality of the environment.

Whereas; The quality of the environment is of paramount concern of the citizens, and

Whereas; A potential threat to the quality of the environment, in particular, ground and surface water exists, and

Whereas;It is a proper function of a governmental body to support and take action to protect its citizens and the environment.

Therefore; Be it resolved by the City Council of Lakeside, Iowa that this council supports and encourages changes in the Department of Natural Resources regulations to require that disposal of industrial wastes meet the same regulations as those imposed on municipal waste disposal.

Passed the City Council, City of Lakeside, Buena Vista County, State of Iowa the 17th day of May, 1990.

Motion was made by Margaret Prahl to approve Notice of Intended Action--Chapters 69 and 121, Land Application of Municipal Sewage Sludge and Other Wastes with the numerical changes suggested by Allan Stokes. Seconded by Mike Earley. Motion carried unanimously.

ITEM #5 - NOTICE OF INTENDED ACTION--CHAPTER 209, GRANTS FOR SOLID WASTE DEMONSTRATION PROJECTS (Continued)

Director Wilson distributed wording the for the language addition to the Notice of Intended Action for Grants for Solid Waste Demonstration Projects. He related that staff prepared the following language for the requested addition to the rule and asked the Commission's approval of same:

567-209.9(455B,455E) Project award. Projects will be awarded based on the following criteria. The department will determine the [illegible] relative value of each of these factors in deciding which projects will receive funding. The criteria include:

9. All other criteria being equal, the geographic distribution of current and proposed grants, population of proposed service area, or proportion of contribution of tonnage fees.

Margaret Prahl stated that she would agree with this language addition with the elimination of the words "All other criteria being equal," since all other criteria will never be equal.

The Commission agreed with the new language proposal as amended.

GENERAL DISCUSSION ITEMS

William Ehm commented that at the last meeting the Commission visited about air toxics and that the state cannot exceed standards set by the federal government. He related that he would like to have a better explanation of that issue at a future meeting.

Mr. Stokes stated that, generally, these standards involve air or wastewater. Stringency requirements provide that if there

is a federal standard like an ambient quality standard or a categorical standard, the state shall not be more stringent than the federal government. It recognizes that if the federal government has not adopted a standard the state can adopt one. He expanded on same and discussed where stringency requirements are found in the Code.

Chairperson Mohr asked for an update on Midwest Research & Recycling (Don Ervin).

Mr. Stokes stated that the department received information from Mr. Ervin late in the day last Friday and staff will need to review it. After review of the information, staff can determine whether or not a permit can be issued.

REFERRALS TO THE ATTORNEY GENERAL

Mike Murphy, Bureau Chief, Legal Services Bureau, presented the following item.

The Director requests the referral of the following to the Attorney General for appropriate legal action. Litigation reports have been provided to the Commissioners and are confidential pursuant to Iowa Code section 22.7(4).

East Side Acres (Moville) - water supply/penalty
Bridgestone/Firestone, Inc. (Des Moines) - water pollution
City of Chariton (Lucas-Monroe SLF) - solid waste

East Side Acres

Mr. Murphy briefed the Commission on the history of this case.

Motion was made by Rozanne King for referral to the Attorney General's Office. Seconded by William Ehm. Motion carried unanimously.

City of Chariton

Mr. Murphy stated that this case involves the Lucas/Monroe County Landfill which is on land owned by the City of Chariton and operated by the city. In 1987, the department issued an Administrative Order due to violations on cover requirements, litter control, and leachate requirements. Mr. Murphy noted that the city complied with portions of the Order in making efforts to address the leachate problem.
However, over the last three years periodic inspections found litter and cover problems. Staff is seeking referral due to

the cumulative effect and the need for several permit issues to be addressed.

APPOINTMENT - EDWARD ELAN (City of Chariton Referral)

Edward Elan, City Manager, Chariton, addressed the Commission stating that their biggest concern is confusion. He related that they have had numerous reports and investigations by DNR but very few recommendations. Mr. Elan stated that beginning as far back as 1988, the most DNR has given them in regards to recommendations was to pick up some of the windblown litter as needed. Another report in April, 1989, recommended that litter fences be erected, windblown litter should be picked up and the eroded portions of the finished areas should be repaired, graded, and seeded. DNR later recommended that the landfill telephone number be placed on the sign, and also they needed an operations permit. Mr. Elan related that they tried to fulfill the obligations of the permit to the best of their ability and they achieved getting the permit renewed. He feels they are receiving mixed signals from the DNR as to what the landfill's priorities should be. Mr. Elan stated that he has hired an additional person to help with the litter problems.

Margaret Prahl remarked that she does not understand what Mr. Elan is saying about mixed signals from the DNR.

Mr. Elan responded that the recommendations given by DNR are not that major. He added that extra people are usually hired to pick up the litter, but manpower in the area has been short in the last two years and it is difficult to get help.

Discussion followed regarding cover problems, leachate problems and litter.

Motion was made by Margaret Prahl for referral to the Attorney General's Office. Seconded by William Ehm. Motion carried unanimously.

CONTESTED CASE DECISION, APPEAL--DANNIE R. HOOVER AND BILL EDWARDS

Mike Murphy, Bureau Chief, Legal Services Bureau, presented the following item.

On February 20, 1989, the department issued Flood Plain Development Permit No. FR89-33 to Lynn Miller of Wayland,

Iowa. That action authorized levee construction in the flood plain of Crooked Creek. That action was appealed by neighboring landowner Dannie R. Hoover and his lessee, Bill Edwards, and the matter proceeded to administrative hearing on January 26, 1990. The hearing officer issued the Proposed Findings of Fact, Conclusions of Law, and Order on April 11, 1990. The decision reverses the department's action.

The department has appealed this order to the Commission and filed a Motion requesting that the Commission accept additional evidence or remand this case back to the Administrative Law Judge for this purpose. The Proposed Decision and documents pertinent to the Appeal and Motion have been distributed to the Commissioners. The entire record, including hearing tapes and exhibits are available for your review. The parties will be available to argue their respective positions and respond to your questions. If you grant the department's Motion, the matter will be reopened for further hearing as you direct. If you deny the Motion, you may then affirm the Proposed Decision, or modify or reverse it, substituting your own findings of fact and conclusions of law based on your conclusions from your review of the record and legal argument.

Mr. Murphy provided background on this case involving a floodplain permit issued in February, 1990, to Lynn Miller for a relocated levee on Crooked Creek. The neighboring landowner and tenant (Hoover and Edwards) appealed the department's issuance of the permit. The matter proceeded to hearing and the administrative law judge, in April, reversed the department's issuance of the permit. The department has appealed that decision to the Commission and has filed a Motion that further evidence be taken on the issue of what happened with the first levee. He added that that appears to be the big issue and deciding factor in this ruling. Mr. Murphy noted that if the Commission grants the Motion, they will need to decide whether to let the administrative law judge hear the additional evidence, or to hear it themselves. Mr. Lamping's resistance indicates a preference, if the Commission grants the Motion, to go back to the administrative law judge, and the department agrees that this would be preferable. Mr. Murphy stated that Mr. Lamping is present to argue that the Motion should be denied.

APPOINTMENT - LESLEY LAMPING

Lesley Lamping, Attorney for Dannie Hoover and Bill Edwards, addressed the Commission stating that Dannie Hoover and his wife are the owners of this particular property. Bill Edwards is a brother of Mrs. Hoover and a tenant on the farm in question. He stated that the levee is located across the

stream on Lynn Miller's farm. The department is seeking an appeal and to introduce additional evidence.
Mr. Lamping stated that what is so unfair about additional evidence in this particular case is that in any other matter, there is a time and date set for hearing and if there is some evidence a party did not get because they did not look or ask for it, it is not the problem of the other party. He added that the department is asking to introduce evidence of the condition of a levee at a certain point, which was before the hearing. He noted that if the department said they were ready at the time of hearing, they should have been ready, and the department could have asked for a continuance during the hearing and they did not do it. Mr. Lamping stated that the department's appeal should be limited to the evidence presented at the original hearing and in the briefs the administrative law judge requested be submitted after the hearing.

Margaret Prahl commented that it appears the status of the levee was different than what was represented by the witnesses at the hearing and she asked if Mr. Lamping disputes that.

Mr. Lamping replied that the first issue is why the department did not introduce their own evidence at the hearing. The second issue is disputed as to whether or not the department's own investigaton, after the fact, is in line with what they had recommended and required of Mr. Miller previously. Mr. Lamping stated that the new report talks about the old levee being breeched, and he thinks the departments requirements for the issuance of the after-the-fact permit was that the entire levee had to be degraded. He added that there is a question about whether degrading and breeched are the same thing.

Margaret Prahl asked if it is Mr. Lamping's contention that the levee was the same after the hearing as what he represented it to be at the hearing.

Mr. Lamping responded that, as far as he knows, there has been no change.

Randall Clark, Legal Services Bureau, explained that there was nothing in the pleadings filed before the case went to hearing that would indicate the existence of the old levee was going to be an issue at the hearing. He emphasized that the complete case was about an unauthorized levee nearly on the bank of the river. In the process of addressing that, after submitting plans, Mr. Miller agreed to relocate the levee and set it back approximately 30-40 feet. After Mr. Miller's engineer surveyed the area, the engineer reported back to the department that the levee had been relocated as agreed. The department concluded that the levee had been degraded because the surveyor said it had been relocated. Mr. Clark added that if he had known that the old levee was going to be an issue at the hearing he would have arranged an inspection

before the hearing. He chose not to seek a continuance before the conclusion of the hearing because staff maintained at the hearing, and the department's engineer testified, that the department has specific enforcement powers to deal with unauthorized construction. Mr. Clark stated that there was still an old levee there that was not addressed by the permit that was issued for the relocated levee, and they could address that as any other unauthorized floodplain construction. The hearing officer did not agree with the department. After the hearing, staff did go out and inspect the levee and found substantially different facts, as far as the old levee, than what was represented at the hearing. Mr. Clark noted that the department would have no problem in allowing Mr. Edwards to also present additional evidence regarding the limited issue of the old levee.

Discussion followed regarding the procedures and requiements of each party at a hearing.

Margaret Prahl asked if staff is alleging fraud or inaccuracies in the presentation of the evidence.

Mr. Clark responded that staff is not alleging fraud, but added that the one photograph showing the old levee is a distant photograph, and he is not sure from the testimony presented that Mr. Edwards had actually been on the Miller property. He related that it is a matter of what Mr. Edwards thought the situation to be, compared to what it actually is.

Discussion followed regarding the Commission's authority to consider new evidence; what might happen in regards to the levee if the permit is not approved; and accuracy of the facts in regards to the surveyor.

Motion was made by Margaret Prahl to remand the appeal to the administrative law judge and recommend that new evidence be admitted from both sides on the limited issue of degrading of the old levee. Seconded by Nancylee Siebenmann.

William Ehm commented that the information from the engineer led the department to believe that the old levee was moved, and he feels the department is not at fault.

Mr. Lamping commented that the Commission's decision is being driven by an expected result. He noted that Mr. Hoover and Mr. Edwards abided by the procedural rules and regulations and the department did not take advantage of the procedures, and now Mr. Hoover and Mr. Edwards are being punished for coming prepared.

Richard Hartsuck commented that the department was poorly informed because of the failure of someone who was hired by Mr. Miller to communicate properly.

Chairperson Mohr requested a roll call vote on Commissioner Prahl's motion. "Aye" vote was cast by Commissioners Earley, King, Prahl, Priebe, Siebenmann, and Mohr. "Nay" vote was cast by Commissioners Ehm and Hartsuck. Motion carried on a vote of 6-Aye to 2-Nay.

REFERRALS TO THE ATTORNEY GENERAL (Continued)

Bridgestone/Firestone, Inc.

Richard Hartsuck stated that he will abstain from discussion and vote in this case because of the competetive relationship between Bridgestone/Firestone, Inc. and his employer.

Mr. Murphy stated that this matter arose on January 8, 1990 when there was a break in the force main that occurred at 7:30 a.m. and was reported to the department around noon. In the process of repairing the main, wastes had been pumped out of an excavation on to the street and material got into Walfley Creek causing quite severe pollution. The company followed the department's instructions and did some cleanup. Mr. Murphy stated that it should have been reported to the department sooner and there were deficiencies in that regard. On March 19, there was another force main break which did not get into the creek, and it was not reported to the department at all. That violated the statutory requirement to report a hazardous condition. Mr. Murphy stated that in looking through the company's records in preparation for this referral, it was noted that there have been consistent violations of the company's NPDES permit for discharge of pollutants into the waters of the state. Mr. Murphy explained that at the time the litigation report was prepared it appeared that the company was not going to proceed with replacement of the force main, and they now say they are close to reaching agreement with the county to get the work done this summer. The company is in dispute whether the March incident is a hazardous condition. The department contends that all breaks should be reported because of the materials that go through the force main.

APPOINTMENT - LARRY CRANE (Bridgestone-Firestone Referral)

Larry Crane, Montgomery Engineers, introduced representatives of Bridgestone/Firestone, Inc. and presented the following written statement:

"Good afternoon, my name is Larry Crane with James M. Montgomery Consulting Engineers, Inc. in Des MOines, Iowa. I am here today representing Bridgestone-Firestone, Inc.

We appreciate the opportunity to address the Commission today in regard to the matter of the referral to the Attorney General. We have had the opportunity to meet with Mr. Murphy and the Department staff and have agreed that the scope of this referral request be limited to the issue of the force main sewer and the alleged hazardous conditions in January and March of this year.

We believe that these remaining issues can also be resolved between the Department and Bridgestone-Firestone. We would prefer that you not refer this matter to the Attorney General. Bridgestone-Firestone wishes to resolve these matters as quickly as possible and to cooperate with the Department in doing so. If you still decide, however, to refer these issues to the Attorney General, it is our intent to meet as quickly as possible to reach an agreement with the Attorney General in regard to these issues. We believe that such an agreement can be reached. As Mr. Murphy indicated we have developed a contingency plan which will ensure that any further line breaks will be repaired under controlled conditions. A copy of this plan has been filed with the Department.

We have also been negotiating with the county for some period of time and are very pleased that we are now finalizing an agreement with Polk County to replace the force main by September 1 of this year. I hope that it is understood that our desire has been to replace this line all along. However, the line is located on county right-of-way and therefore, we could not replace the line without their agreement.

Again, we request that you not refer this matter to the Attorney General, and we thank you for the opportunity to make this statement."

Discussion followed regarding the county's reluctance to go into this program; the company's reluctance to proceed with a new force main; background on submittal of plans to the county and mutual agreement reached on replacing the line; and untimely reporting of the incidents.

Motion was made by Margaret Prahl for referral to the Attorney General's Office. Seconded by Rozanne King. Motion carried with Richard Hartsuck abstaining due to the reasons he previously stated.

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ADJOURNMENT

With no further business to come before the Environmental Protection Commission, Chairperson Mohr adjourned the meeting at 4:10 p.m., Monday, May 21, 1990.

Larry J. Wilson, Director

Nancylee Siebenmann, Secretary